# DEHN'S Sanitary Safeguards

CATALOGUE No. 16



COMPOUND INJECTOR AND SPECIALTY Co.

419-421 North 52nd Avenue CHICAGO, ILLINOIS, U. S. A.

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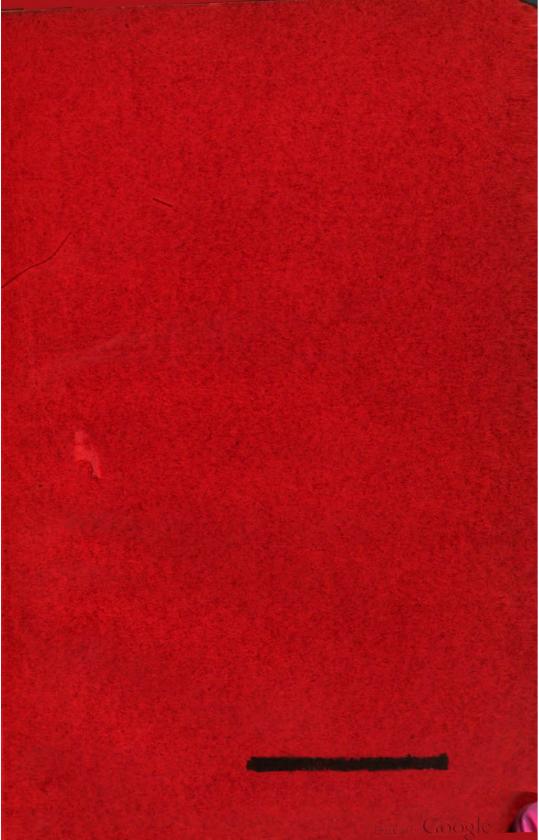
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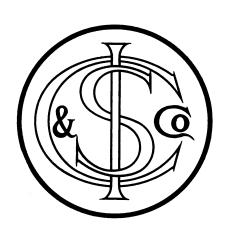
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This catalogue represents many months of unremitting toil and the progress in Sanitary Science in recent years has entirely changed since manufacturing our high grade appliances. After careful consideration we are sure you will agree that our line is in a class by itself. We loan this catalogue gladly to our customers and feel sure that they will use it as a valuable book should be used. Please do not cut out the illustrations or tear out the pages. If you will give the catalogue number, figure number and size of the openings of the fixture desired, with this information we can fill all orders correctly.

CONTRACTOR CONTRACTOR









General Offices, Sales and Warerooms

ΟF

# Compound Injector & Specialty Company

We manufacture the ONLY complete line of Floor Drains, Grease Traps and Sanitary Drainage Specialties in the United States.

BUILDERS' TRADE CATALOG Section 35D. Catalog 1.

SWEET'S CATALOGUE OF BUILDING CONSTRUCTION

1912 — Pages 1108-1109.

ILLUSTRATING AND DESCRIBING

## **DEHN'S**

# High-Grade Sanitary Plumbing Specialties

---- AND ----

## **DEHN'S**

## Automatic Water Softener and Scale Removing Devices

Compound Injector & Specialty Company
419-421 North 52nd Avenue
CHICAGO, U. S. A.

Long Distance Telephone, Austin 543 Cable Address, "COMPOUND"

THIS Catalogue supersedes all previous editions published by us. We have added a great many new improved and useful Specialties to our line. Changes have been made in some of the list prices. To avoid errors destroy all previous issues of our Catalogues and price-lists.

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COMPOUND INJECTOR & SPECIALTY
CO.

CHICAGO, ILLINOIS, U. S. A.

#### INTRODUCTION

In presenting this, our No. 16 Catalog, we wish to thank our many friends and customers for their past favors and to call their attention to the many new, improved and useful Specialties which have been added to our line.

To those whom we number as our customers, we need no introduction, as they know us by the superior quality and workmanship of our goods.

To those whom we do not number as our customers, we would say that in the past fifteen years, we have been engaged in the manufacture of Plumbing Specialties and the fact that we have been able, not only to build up a large business in the past fifteen years, but also to hold during these many years, the business of our first customers should be sufficient guarantee of the reliability of our goods.

As some of the very largest jobbers and dealers in the country have taken up our line and are willing to stand back of us, it would indicate that our fixtures are economical, efficient and practical in every way, and that they are on the market to stay.

Increased demand for our goods in the United States, Canada and foreign countries has enabled us to adopt every facility for taking care of our rapidly increasing business with the greatest possible dispatch. We can assure you that we will fill all orders with our usual promptness.

COMPOUND INJECTOR AND SPECIALTY COMPANY.

#### IMPORTANT NOTICE.

#### TERMS.

Net cash 30 days from date of invoice, less 2% if paid within 10 days from date of invoice.

All quotations are made for immediate acceptance, F. O. B. Chicago and are subject to change without notice, unless otherwise agreed upon.

Parties ordering first time, and desiring credit, must have good commercial rating or furnish satisfactory references before shipment will be made.

Bank remittance must be made in Chicago or New York Exchange.

No goods will be shipped C. O. D. or to our order with draft and bill of lading attached, unless one-half payment is made in advance.

Accounts past due are subject to sight draft without further notice.

No time extension allowed, nor more than 30 days given, except by special agreement.

All agreements contingent upon occurrences beyond our control. After your orders are received and entered the cancellation of same must be subject to our acceptance.

No goods shipped for trial or on consignment.

#### HOW TO ORDER.

Give catalog and figure number and be sure to give size and finish desired; state fully fixture wanted as per catalog description to save time and unnecessary correspondence.

#### SHIPPING DIRECTIONS.

Unless definite shipping directions are given, the routing is optional with us.

All shipments weighing 25 pounds or less, will be shipped via Express, unless otherwise specified.

#### CLAIMS AND DAMAGES.

All claims for errors must be made upon receipt of goods. Goods found defective in manufacture will be replaced but we will allow no claims for labor or damage.

Our responsibility ceases as soon as goods are delivered to carrier in good order and condition and proper receipt taken for same, as the ownership has then passed from us to consignee.

#### RETURNED GOODS.

No returned goods will be received unless our written consent has first been obtained.

Transportation charges must in all cases be fully prepaid. All other expenses involved will be charged at cost.

#### WARNING.

You doubtless realize that you have sometimes been persuaded to place orders for material that was not worth shelf-room, we respectfully call your attention to the fixtures listed in the following pages of this catalog, which is presented with a view of giving you an opportunity to thoughtfully examine and study our fixtures, by illustration and description, leaving the results to your own best judgment.

Although there are many so-called plumbing fixtures on the market, do not confuse them with our line, for our fixtures mean more than muscle and material. Our fixtures mean knowledge, experience and reliable workmanship. They represent the result of more than twenty-five years' experience in installing plumbing systems, of which more than fifteen years of this time was also spent in scientific research in order to perfect our Automatic Water Softener and Scale Removing Devices. In this feature, we have succeeded in accomplishing results that were classed as impossible, viz: the softening of water and the consequent prevention of scale.

Our Sanitary Specialties contain many improvements, including several distinctively new and original mechanical features of great merit. They are designed to fill the requirements of the most rigid sanitary laws and have been approved by Sanitary Engineers and Plumbing Inspectors everywhere. As their Trade names, "ACME" and "PeerlesS" imply, they are unexcelled in design and operation, durable in make and in every way reliable.

No other devices on the market are "equally as good," or can be substituted WITHOUT RISK for the "Dehn" Line.

The essential parts of our devices are patented.

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#### FACTS THAT SHOULD INTEREST YOU.

Progress in Sanitary Science in recent years has entirely changed the method of installing plumbing and drainage systems in residences as well as in public buildings.

Statistics obtained from various cities in the United States show that where modern appliances have been installed in plumbing and drainage systems, the mortality has decreased 30 per cent. These results can be attributed to the following:

Sanitary Laws enacted by the state.

Health Boards created by these laws.

Plumbing and Drainage Inspection Bureaus established to enforce the laws.

Improved building methods adopted by Architects.

Master Plumbers who by their enterprise and perseverence have succeeded in convincing their trade that it is both a safeguard to health and a real economy to install modern high-grade appliances.

Journeymen Plumbers with their superior workmanship and intelligence, and last, but not least, the manufacture of modern, sanitary appliances and improvements founded on knowledge derived from actual experience in the plumbing business.

We would call your special attention to the fact that our line pertains to the most important features of the plumbing and drainage system, for these fixtures are nearly always located in obscure or out-of-the-way places and are very often entirely neglected after installation. Too frequently for this reason, inferior fixtures are installed.

Aware of these conditions, we have constructed our fixtures on scientific principles so that they will not need frequent attention after installation. They are recommended by Sanitary Engineers and Plumbing Inspectors everywhere.

After careful consideration, we are sure you will agree that our line is in a class by itself.

#### ARCHITECTS AND CONTRACTORS.

You will safeguard the health of your clients as well as show your progressiveness by recommending and specifying our Sanitary Drainage fixtures.

You will find by referring to the succeeding pages that we manufacture a complete line of Sanitary fixtures. These contain many improvements in this line, including several distinctly new and original mechanical features of great merit.

It should be more satisfactory and convenient for you to specify our line throughout the entire building.

#### HOW TO SPECIFY OUR FIXTURES.

All Cellar, Floor and Area Drains to be Dehn's "ACME" Fig. 5, 2", 3" or 4".

Garage Floor Drains to be Dehn's "PeerlesS" Fig. 62.

All other Floor Drains to be Dehn's "PeerlesS" Fig. 60, 2" or 4". Kitchen Sink Grease Traps to be Dehn's "ACME" Water Cooling Grease Trap, Fig. 113, diameter 12", 20" or 24", located immediately below sink in basement.

#### CO-OPERATION.

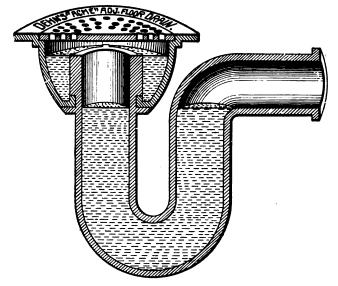
We are continually making improvements in our line, hence, it will be to our mutual interest for you to keep in close touch with our firm in order to keep yourself posted. We are at your service.

It is important to mention figure, number and size of every fixture desired.

Builders' Trade Catalog, Section 35D-1.

Sweet's Catalog of Building Construction, 1912, pages 1108-1109.

#### Dehn's "A CME" Adjustable Floor Drain with Continuous Pipe Trap (No Partitions). 4" Water Seal in Trap.

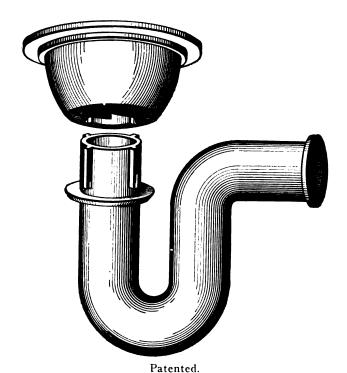


Patented.

There is an ever increasing demand for a Floor Drain suitable for use in buildings of all descriptions. Our Combined Adjustable Receiver and Trap with 4" Water Seal, as illustrated above, is the result of our experience and knowledge in the plumbing business. That we have been able to devise a satisfactory fixture which is a combination of trap and receiver is demonstrated by our extensive sales of the above fixture.

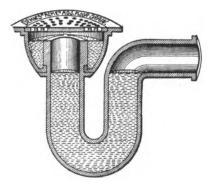
## Dehn's "AcM E" Adjustable Floor Drain with Continuous Pipe Trap (No Partitions). 4" Water Seal in Trap.—Continued.

A convenient feature is that the Trap may be caulked tight into the drainage system and the receiver can be attached later as convenient. The receiving-end of the trap is made with lugs and the bottom of receiver is made with slots to slip over these lugs so that when it is in place, it can be brought down tight on the trap flange. Then, by a short turn, it engages with the lugs and is held firmly in place. A little "Dope" is placed on the flange to make a water-tight connection, which soon results in an indestructible rust joint. No bolts or screws to rust out.



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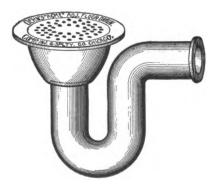
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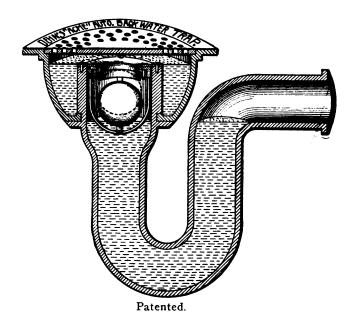
Patented.

It will be observed that the receiver is provided with a sand cup, also that the perforation in the cover is on the outer edge only, the center being solid; hence, all the water and solids must enter the sand cup first. This is a very important feature and will prevent the trap from getting stopped up.

With our Combined Adjustable Floor Drain and Cellar Trap, you can make a first-class sanitary job, with less labor and material and at half the cost of doing it the old way. The trade is familiar with the difficulties encountered in the use of the old-fashioned cesspools, bell traps and partition traps, etc. See Page 20, Fig. 3, for prices.



Dehn's "A™E" Floor Drain with Continuous Pipe Trap (No Partitions) with the Only Reliable Automatic Back
Water Valve. 4" Water Seal in Trap.



A positive Automatic Back Water Valve, which will prevent the flooding of cellars by the backing up of water through the basement or area drains. It will be observed from the accompanying illustration that the metal ball is so arranged that it cannot get damaged and is always free and clean, and ever ready for action. These fixtures are provided with a metal seamless ball float, which will automatically and effectually close off all back water by rising into and against the seat. The Brass Valve with cage and ball in same can be taken out of trap in a few moments by unscrewing the four brass screws, which hold the brass valve in place. Ball cannot get down into outlet of trap by the suction of the water and cannot become air-bound. These Automatic Back Water Valves and Floor Drains are considered the most perfect and reliable fixtures on the market; they are endorsed by Sanitary Engineers and Plumbing Inspectors everywhere.

See Page 21, Fig 5, for Prices.

#### Dehn's "ACME" Floor Drain with Continuous Pipe Trap (No Partitions). 4" Water Seal in Trap.

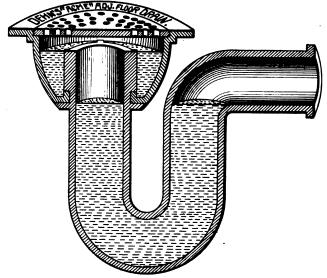


Fig. 3. Patented.

These Floor Drains and Traps are specially designed for use in cellars where the sewers cannot be put down deep in the ground, also where excavating is a large item of expense in putting in sewers to drain cellars. The outlet of trap is only 2 inches below top of receiver. This is an important feature. All openings are full size, hence no difficulty is experienced in entering test plugs.

Depth of Water SealInches,	4	4	4
Size of OutletsInches,	2	3	4
Diameter of TopInches,	8	9	12
Depth over al:Inches,	10	13	15
Length over allInches,	12	14	21
Receiver above outlet of TrapInches,	2	2	2
Approximate WeightPounds,	20	30	50
Fig. 3-A. Iron Top and Strainer Each,	\$ 2.00	\$ 4.00	\$ 6.00
Fig. 3-B. Brass Finished Top and Strainer. Each,	7.00	10.00	14.00
Fig. 3-C. N. P. Brass Top and Strainer. Each,	9.00	12.00	17.00

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Dehn's "ACM E" Floor Drain with Continuous Pipe Trap (No Partitions), with the Only Reliable Automatic Back Water Valve. 4" Water Seal in Trap.

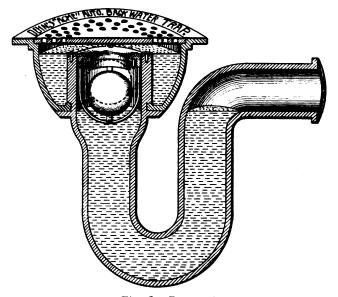


Fig. 5. Patented.

These fixtures cover a long-felt want. They can be used for the same purpose as the trap described on the opposite page, but have the addition of our positive back water feature. The Original deep seal continuous pipe trap. No partitions. Adjustable receiver. High outlet. Solid center in strainer. Positively no flood with these fixtures. They fill all the requirements of the most rigid sanitary laws.

Water SealInches,	4	4	4
Size of OutletsInches,	2	3	4
Diameter of TopInches,	9	10	12
Depth over allInches,	11	13	15
Length over allInches,	13	14	21
Receiver above outlet of TrapInches,	2	2	2
Approximate WeightPounds,	25	35	60
Fig. 5-A. Iron Top and StrainerEach,	\$ 7.00	\$ 9.00	\$12.00
Fig. 5-B. Finished Brass Top and Strainer. Each,	13.00	16.00	20.00
Fig. 5-C. N. P. Brass Top and Strainer. Each,	15.00	18.00	23.00

Dehn's "ACME" Floor Drain with Continuous Pipe Trap

(No Partitions) with Large Brass Taper-Threaded

Clean-Out Plug. 4" Water Seal in Trap.

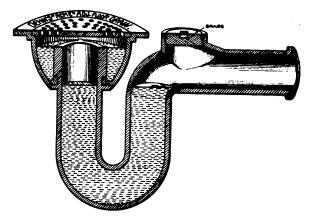


Fig. 6. Patented.

In cities where the Sanitary Ordinance requires Floor Drains to be provided with handhole or clean-out, these fixtures should appeal to you as being most desirable. Visible clean-out, flush with floor, is most practical. These fixtures are provided with a large brass, taper-threaded, counter-sunk head plug (NO Gaskets).

Depth of Water SealInches,	4	4	4
Size of OutletsInches,	2	3	4
Diameter of TopInches,	8	9	12
Depth over ailInches,	10	13	15
Length over allInches,	18	20	22
Receiver above outlet of TrapInches,	2	2	2
Average WeightPounds,	25	35	60
Fig. 6-A. Iron Top and StrainerEach,	\$ 4.00	\$ 7.00	\$10.00
Fig. 6-B. Brass Finished Top and Strainer. Each,	9.00	13.00	18.00
Fig. 6-C. N. P. Brass Top and Strainer. Each,	11.00	15.00	21.00

Dehn's "Acm E" Floor Drain with Continuous Pipe Trap
(No Partitions) with Large Brass Taper-Threaded
Clean-Out Plug, with the Only Reliable
Automatic Back Water Valve. 4"
Water Seal in Trap.

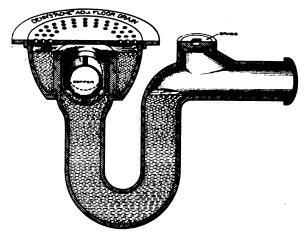


Fig. 7. Patented.

These fixtures fill all the requirements of the most rigid sanitary laws. When these fixtures are installed you will have no "Comebacks." You will hear nothing but praise for them. This offers you the trap on the opposite page, with the addition of our Back Water Feature. As their trade name, "ACME," implies, we believe them to be unexcelled in design and operation.

Water Seal	Inches,	4	4
Size of Outlets	Inches, 2	2 3	4
Diameter of Top	Inches, 9	10	12
Depth over all	Inches, 1	13	15
Length over all	Inches, 18	3 20	22
Receiver above outlet of Trap	Inches, 2	2 2	2
Average Weight	Pounds, 30	40	65
Fig. 7-A. Iron Top and Strainer	Each, \$ 8.00	\$11.00	\$15.00
Fig. 7-B. Finished Brass Top and Strainer.	Each, 14.00	18.00	23.00
Fig. 7-C. N. P. Brass Top and Strainer	Each, 16.0	0 20.00	26.00

See our new Water-Tight Floor Drain for Cement, Tile or Mosaic Floors on page 46.

Dehn's "ACME" One-Piece Floor Drain with Continuous Pipe Trap (No Partitions), with Large Brass Taper-Threaded Clean-Out Plug in Receiver. (No Gaskets.)

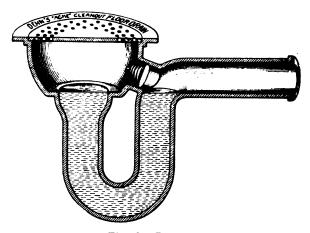


Fig. 8. Patented.

These Floor Drains take the place of the old-fashioned cesspools, bell traps and partition contraptions. No Plumbing Code recognizes cesspools, bell traps and partition trap pots as plumbing fixtures.

Water SealInches,	4	4	4
Size of OutletsInches,	2	3	4
Size of Brass Clean-out PlugsInches.	11/2	11/2	11/2
Diameter of TopInches,	9	10	12
Length over allInches,	18	20	24
Receiver above OutletInches,	2	2	2
Approximate WeightPounds,	25	35	60
Fig. 8-A. Iron Top and StrainerEach,	\$ 3.50	\$ 6.00	\$ 9.00
Fig. 8-B. Brass Finshed Top and Strainer. Each,	9.50	13.00	17.00
Fig. 8-C. Brass N. ". Top and Strainer Each,	11.50	15.00	20.00

Dehn's "ACME" One-Piece Floor Drain with Continuous Pipe Trap (No Partitions), with Large Brass Taper-Threaded Clean-Out Plug and the Only Reliable Automatic Back Water Valve.

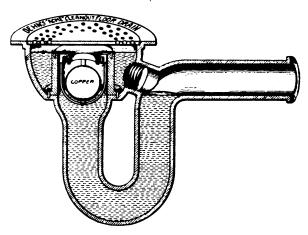


Fig. 9. Patented.

All our Floor Drains are furnished with round receivers. These are the most practical to install. Our fixtures are the "ACME" of perfection.

Water SealInches,	4	4	4
Size of OutletsInches,	2	3	4
Size of Brass Clean-out PlugsInches,	11/2	11/2	11/2
Diameter of TopInches,	9	10	12
Length over allInches,	18	20	24
Receiver above OutletInches,	2	2	2
Approximate WeightPounds,	30	40	65
Fig. 9-A. Iron Top and StrainerEach,	\$ 7.50	\$10.00	\$14.00
Fig. 9-B. Brass Finished Top and Strainer. Each,	13.50	17.00	22.00
Fig. 9-C. Brass N. P. Top and Strainer. Each,	15.50	19.00	25.00

To avoid explosion in garages, see page 82.

Dehn's "AcME" One-Piece Floor Drain with Continuous Pipe Trap (No Partitions), with Large Brass Taper-Threaded Clean-Out Plug and Side Vent Opening.

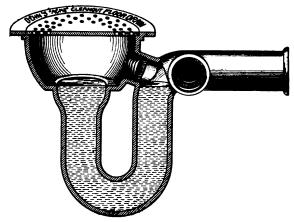


Fig. 10. Patented.

In some cities the Plumbing Code requires Floor Drains to be vented, also provided with Clean-Out Plugs; these Floor Drains will fill the requirements to the entire satisfaction of all concerned.

Water SealInches,	4	4	4
Size of OutletsInches,	2	3	4
Size of Vent OpeningsInches,	2	2	2
Size of Brass Clean-out PlugInches,	11/2	11/2	11/2
Diameter of TopInches,	9	10	12
Length over allInches,	18	20	24
Receiver above outlet of TrapInches,	2	2	2
Approximate WeightPounds,	30	40	65
Fig. 10-A. Iron Top and StrainerEach,	\$ 4.50	\$ 7.50	\$10.00
Fig. 10-B. Brass Top and StrainerEach,	10.50	14.00	18.00
Fig. 10-C. Brass N. P. Top and Strainer. Each,	12.50	16.00	21.00

Dehn's "ACME" One-Piece Floor Drain with Continuous Pipe Trap (No Partitions), with Large Brass Taper-Threaded Clean-Out Plug with the Only Reliable Automatic Back Water Valve and Side Vent Opening.

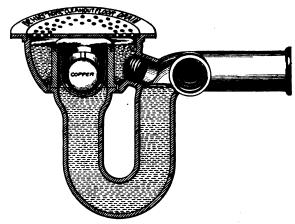


Fig. 11. Patented.

These Floor Drains are most desirable when connecting additional fixtures with the sewer under the cement floor. At the same time, the side opening on the Floor Drain can be connected with the vent stack.

Water SealInches,	4	4	4
Size of OutletsInches,	2	3	4
Size of Vent OpeningsInches,	2	2	2
Size of Brass Clean-out PlugInches,	1 1/2	11/2	11/2
Diameter of TopInches,	9	10	12
Length over allInches,	18	20	. 24
Receiver above OutletInches,	2	2	2
Approximate WeightInches,	35	45	75
Fig. 11-A. Iron Top and StrainerEach,	\$ 8.50	\$11.00	\$15.00
Fig. 11-B. Brass Top and StrainerEach,	14.50	18.00	23.00
Fig. 11-C. N. P. Brass Top and Strainer. Each,	16.50	20.00	26.00

A new Floor Drain and Hopper combined on page 65.

## Dehn's "ACME" Floor Drain with Continuous Pipe Trap (No Partitions) with Adjustable Receiver and Side Vent Opening.

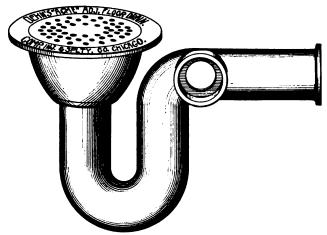


Fig. 12. Patented.

These Floor Drains and 4-inch Seal Trap are especially designed for use in cellars where the sewers are shallow or cannot be put down deep in the ground and where the Floor Drains are required to be vented. The most practical and convenient fixture for the purpose intended.

Water SealInches,	4	4	4
Size of OutletsInches,	2	3	4
Size of Vent OpeningsInches,	2	2	2
Diameter of TopInches,	8	9	12
Depth over allInches,	10	13	15
Length over allInches,	18	20	22
Receiver above outlet of TrapInches,	2	2	2
Average WeightPounds,	25	35	60
Fig. 12-A. Iron Top and StrainerEach,	\$ 3.50	\$ 5.50	\$ 8.00
Fig. 12-B. Brass Finished Top and			
StrainerEach,	8.50	11.50	16.00
Fig. 12-C. N. P. Brass Top and Strainer. Each,	10.50	13.50	19.00

Dehn's "ACME" Floor Drain with Continuous Pipe Trap
(No Partitions) with Adjustable Receiver and Side
Vent Opening. With the Only Reliable
Automatic Back Water Valve.

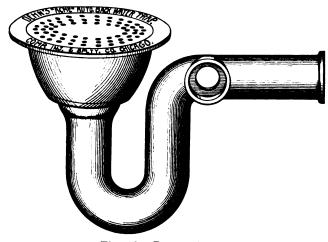


Fig. 13. Patented.

These fixtures are the result of years of experience. We know they will be appreciated by the trade. They are the most practical and convenient fixtures ever placed on the market.

Water SealInches,	4	4	4
Size of OutletsInches,	2	3	4
Size of Vent OpeningsInches,	2	2	2
Diameter of TopInches,	9	10	12
Depth over allInches,	11	13	15
Length over al!Inches,	18	20	22
Receiver above outlet of TrapInches,	2	2	2
Average WeightPounds,	25	35	65
Fig. 13-A. Iron Top and StrainerEach,	\$ 7.50	\$ 9.50	\$13.00
Fig. 13-B. Finished Brass Top and			
Strainer Each,	13.50	16.50	21.00
Fig. 13-C. N. P. Brass Top and Strainer. Each,	15.50	18.50	24.00

To prevent the choking of waste pipes, refer to page 113.

Dehn's "AcME" Floor Drain with Continuous Pipe Trap
(No Partitions) with Top Vent Opening.

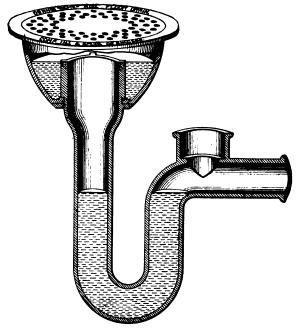


Fig. 14. Patented.

With these fixtures you have a standard for measurements. They are all 9 inches from the top of receiver to outlet of Trap. These are the most practical and convenient fixtures to install. Note Deep Water Seal in Trap. A practical floor drain is always welcome.

Water SealInches,	4
Size of OutletInches,	2
Size of Vent OpeningInches,	2
Diameter of TopInches,	9
Depth of Hub from Top of ReceiverInches,	9
Depth over allInches,	17
Receiver above outlet of TrapInches,	9
Length over allInches,	18
Average WeightPounds,	30
Fig. 14-A—Iron Top and Strainer Each,	\$ 4.00
Fig. 14-B-Finished Brass Top and Strainer Each,	10.00
Fig. 14-C-N. P. Brass Top and Strainer Each,	12.00

Dehn's "ACME" Floor Drain with Continuous Pipe Trap (No Partitions) with Top Vent Opening, and the Only Reliable Automatic Back Water Valve.

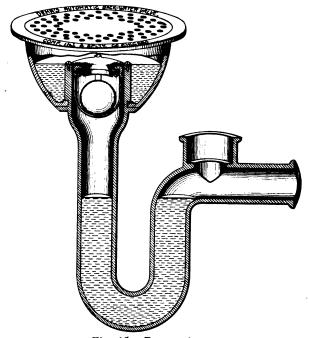


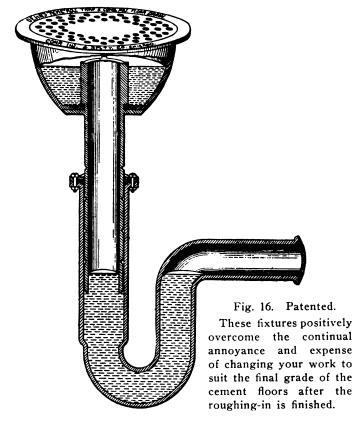
Fig. 15. Patented.

In cities where the Sanitary Laws are rigid and enforced to the letter, these fixtures should appeal to you as being the most desirable to install, especially since modern conveniences are a necessity.

Water SealInches,	4
Size of OutletsInches,	2
Size of Vent OpeningInches,	2
Diameter of TopInches,	9
Depth of Hub from Top of ReceiverInches,	9
Depth over allInches,	17
Receiver above outlet of TrapInches,	9
Length over allInches,	18
Average WeightPounds,	30
Fig. 15-A—Iron Top and Strainer Each,	\$ 8.00
Fig. 15-B—Finished Brass Top and Strainer Each,	14.00
Fig. 15-C—N. P. Brass Top and StrainerEach,	16.00

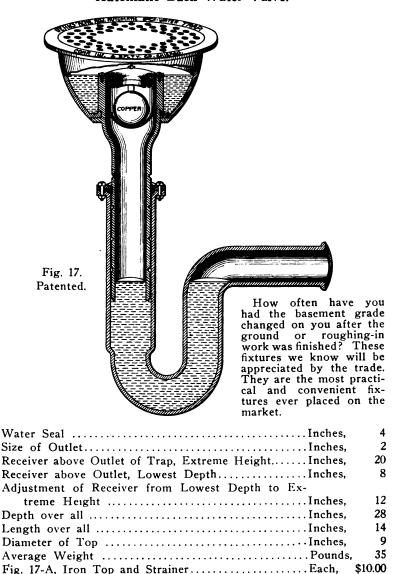
See our new Water-Tight Floor Drain for Cement, Tile or Mosaic Floors on page 46.

#### Dehn's "AcME" Floor Drain with Adjustable Continuous Pipe Trap (No Partitions).



Water SealInches,	4
Size of OutletInches,	2
Receiver above Outlet of Trap, Extreme HeightInches,	20
Receiver above Outlet, Lowest DepthInches,	8
Adjustment of Receiver from Lowest Depth to Ex-	
treme HeightInches,	12
Depth over allInches,	28
Length over allInches,	14
Diameter of TopInches,	8
Average WeightPounds,	30
Fig. 16-A, Iron Top and StrainerEach,	\$ 5.00
Fig. 16-B, Finished Brass Top and StrainerEach,	10.00
Fig. 16-C, N. P. Brass Top and StrainerEach,	12.00

### Dehn's "ACME" Floor Drain with Adjustable Continuous Pipe Trap (No Partitions), with the Only Reliable Automatic Back Water Valve.



To avoid explosions in garages, see Page 82.

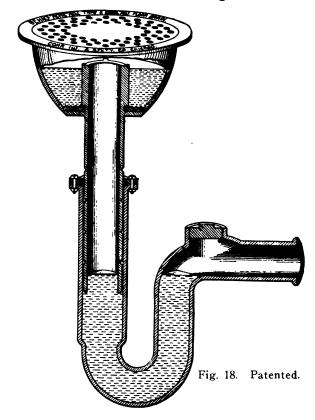
Fig. 17-B, Finished Brass Top and Strainer..... Each,

Fig. 17-C, N. P. Brass Top and Strainer.....Each,

16.00

18.00

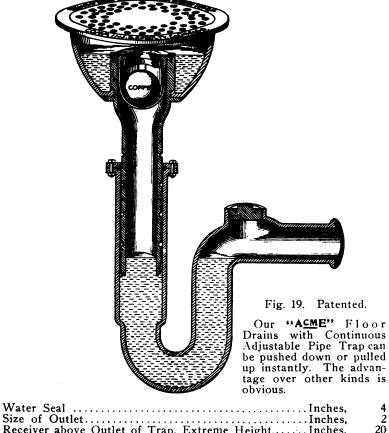
Dehn's "ACM E" Floor Drain with Adjustable Continuous Pipe Trap (No Partitions) with Large Brass Taper-Threaded Clean-Out Plug.



The trade will experience these fixtures most practical to install where Floor Drains are required on floors above the basement, and where the run of piping is suspended from the bottom of the joist. The adjustable trap allows proper pitch without additional fittings or labor.

Water Seal Inches, Size of Outlets' Inches,	4 2
Receiver above outlet of Trap, extreme heightInches,	20
Receiver above outlet of Trap, Lowest DepthInches,	8
Adjustment of Receiver from Lowest Depth to Ex-	
treme HeightInches,	12
Depth over allInches,	28
Length over allInches,	14
Diameter of Top	8
Average WeightPounds,	35
	\$ 6.50
Fig. 18-B—Finished Brass Top and Strainer Each,	11.50
Fig. 18-C—N. P. Brass Top and StrainerEach,	13.50

Dehn's "AcmE" Floor Drain with Adjustable Continuous
Pipe Trap (No Partitions), with Large Brass TaperThreaded Clean-Out Plug, with the Only Reliable Automatic Back Water Valve.



water Seal	i, 4
Size of OutletInches	, 2
Receiver above Outlet of Trap, Extreme Height Inches	, 20
Receiver above Outlet of Trap, Lowest DepthInches	, 8
Adjustment of Receiver from Lowest Depth to Ex-	
treme HeightInches	, 12
Depth over allInches	, 28
Length over allInches	, 14
Diameter of TopInches	, 9
Average WeightPound	ls, 40
Fig. 19-A, Iron Top and StrainerEach,	\$11.50
Fig. 19-B, Finished Brass Top and StrainerEach,	17.50
Fig. 19-C, N. P. Brass Top and StrainerEach,	19.50

A new Floor Drain and Hopper combined on Page 65.

# Dehn's "ACME" Floor Drain with Continuous Pipe Trap (No Partitions) with Re-inforced Iron Pipe Threaded Outlet.

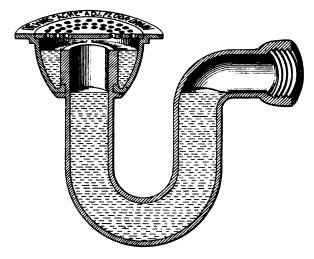


Fig. 20. Patented.

In a large percentage of buildings, the Durham System is installed. These Floor Drains are especially constructed for the Durham System and fill their every requirement.

Depth of Water SealInches,	4	4	4
Size of OutletInches,	2	3	4
Diameter of TopInches,	8	9	12
Depth over allInches,	11	13	15
Length over allInches,	12	14	21
Receiver above outlet of TrapInches,	2	2	2
Approximate WeightPounds.	25	35	55
Fig. 20-A. Iron Top and Strainer Each,	\$ 3.50	<b>\$ 6.0</b> 0	\$ 9.00
Fig. 20-B. Brass Finished Top and			
StrainerEach,	8.50	12.00	17.00
Fig. 20-C. N. P. Brass Top and Strainer, Each.	10.50	14.00	20.00

Dehn's "Acme" Floor Drain with Continuous Pipe Trap (No Partitions), with Re-inforced Iron Pipe Threaded
Outlet. With the Only Reliable Automatic
Back Water Valve.

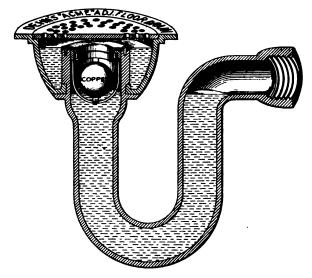


Fig. 21. Patented.

Dehn's Sanitary Specialties contain many improvements in economy, including several new and original mechanical features of great merit.

Water SealInches,	4	4	4
Size of Outlet	2	3	4
Diameter of TopInches,	9	10	12
Depth over allInches,	11	13	15
Length over allInches,	13	14	21
Receiver above outlet of TrapInches,	2	2	2
Approximate WeightPounds,	30	40	65
Fig. 21-A. Iron Top and Strainer Each.	\$ 8.50	\$11.00	\$15.00
Fig. 21-B. Finished Brass Top and			
Strainer Each,	14.50	18.00	23.00
Fig. 21-C. N. P. Brass Top and Strainer. Each,	16.50	20.00	26.00

To prevent the choking up of waste pipes, refer to Page 113.

# Dehn's "Acme" Floor Drain with Continuous Pipe Trap (No Partitions), with Re-inforced Iron Pipe Threaded Outlet and Large Brass Taper-Threaded Clean-Out Plug.

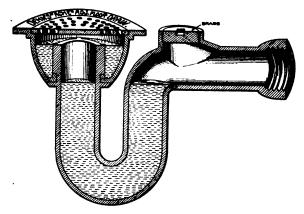


Fig. 22. Patented.

Figure 22 meets the requirements for hand-hole or clean-out in floor drains in keeping with Sanitary Ordinances.

Water SealInches,	4	4	4
Size of OutletInches,	2	3	4
Diameter of TopInches,	8	9	12
Depth over allInches,	10	13	15
Length over allInches,	18	<i>2</i> 0	22
Receiver above outlet of TrapInches,	2	2	2
Average WeightPounds,	30	40	65
Fig. 22-A. Iron Top and StrainerEach,	\$ 5.50	\$ 9.00	\$13.00
Fig. 22-B. Brass Finished Top and			
Strainer Each,	10.50	15.00	21.00
Fig. 22-C. N. P. Brass Top and Strainer. Each,	12.50	17.00	24.00

Dehn's "Acme" Floor Drain with Continuous Pipe Trap (No Partitions), with Re-inforced Iron Pipe Threaded Outlet, Large Brass Taper-Threaded Clean-Out Plug.

With the Only Reliable Automatic Back

Water Valve.

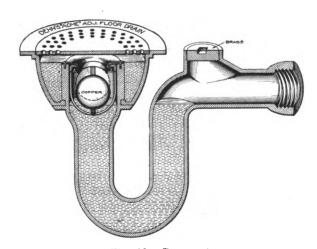


Fig. 23. Patented.

Install Dehn's "ACME" Floor Drains with Automatic Back Water Valve and insure yourself against flooded basements.

Water SealInches,	4	4	4
Size of OutletInches,	. 2	3	4
Diameter of TopInches,	9	10	12
Depth over allInches,	11	13	15
Length over allInches,	18	20	22
Receiver above outlet of TrapInches,	. 2	2	2
Average WeightPounds,	35	45	70
Fig. 23-A. Iron Top and StrainerEach,	\$ 9.50	\$13.00	\$18.00
Fig. 23-B. Finished Brass Top and			
StrainerEach,	15.50	20.00	26.00
Fig. 23-C. N. P. Brass Top and Strainer. Each,	17.50	22.00	<b>29.00</b>

See our new Water-Tight Floor Drain for Cement, Tile or Mosaic Floors on page 46.

Dehn's "Acme" One-Piece Floor Drain with Continuous Pipe
Trap (No Partitions), Re-inforced Iron Pipe Threaded
Outlet and Large Brass Taper-Threaded CleanOut Plug in Receiver.

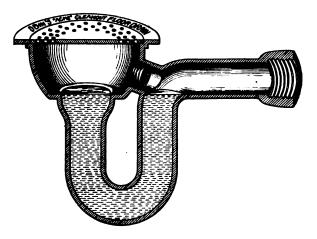


Fig. 24. Patented.

These fixtures are convenient to install with Cement, Tile or Mosaic floors. The clean-out or hand-hole will not interfere with the appearance of the floor.

Water SealInches,	4	4	4
Size of OutletInches.	2	3	4
Size of Brass Clean-out PlugInches,	11/2	11/2	11/2
Diameter of TopInches,	9	10	12
Length over allInches,	18	20	24
Receiver above outletInches,	2	2	2
Approximate WeightPounds,	30	40	65
Fig. 24-A. Iron Top and StrainerEach,	\$ 5.00	\$ 8.00	\$12.00
Fig. 24-B. Brass Finished Top and			
StrainerEach,	11.00	15.00	20.00
Fig. 24-C. Brass N. P. Top and Strainer. Each,	13.00	17.00	23.00

Dehn's "A CME" One-Piece Floor Drain with Continuous Pipe
Trap (No Partitions), Re-inforced Iron Pipe Threaded
Outlet, Large Brass Taper-Threaded Clean-Out
Plug in Receiver, and the Only Reliable
Automatic Back Water Valve.

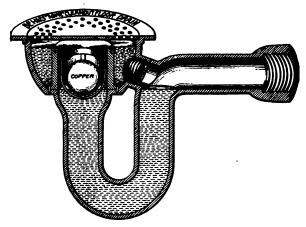


Fig. 25. Patented.

Dehn's "ACME" Floor Drains, with and without Automatic Back Water Valves are recommended by Sanitary Engineers and Plumbing Inspectors everywhere.

Water SealInches,	4	4	4
Size of OutletInches,	2	3	4
Size of Brass Clean-out PlugInches,	11/2	1 1/2	11/2
Diameter of TopInches,	9	10	12
Length over allInches,	18	20	24
Receiver above outlet of TrapInches,	2	2	2
Approximate weightPounds,	35	45	70
Fig. 25-A. Iron Top and Strainer Each,	\$ 9.00	\$12.00	\$17.00
Fig. 25-B. Brass Finished Top and			
Strainer Each,	15.00	19.00	25.00
Fig. 25-C. Brass N. P. Top and Strainer. Each.	17.00	21.00	28.00

To avoid explosions in garages, see page 82.

## Dehn's "Acme" Floor Drain with Adjustable Continuous Pipe Trap (No Partitions) and Re-inforced I. P. Threaded Outlet.

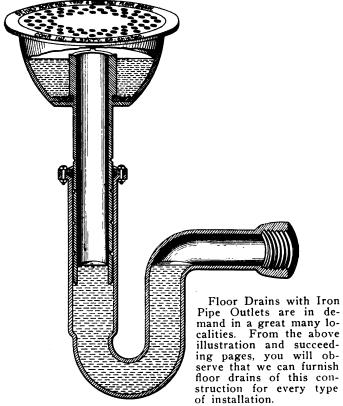
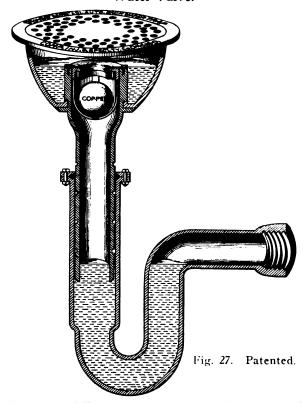


Fig. 26. Patented.

Water SealInches,	4
Size of OutletInches,	2
Receiver above Outlet of Trap, Extreme HeightInches,	20
Receiver above Outlet of Trap, Lowest DepthInches,	8
Adjustment of Receiver from Lowest Depth to Ex-	
treme HeightInches,	12
Depth over allInches,	18
Length over allInches,	14
Diameter of TopInches,	8
Average WeightPounds,	45
Fig. 26-A, Iron Top and StrainerEach,	\$ 6.50
Fig. 26-B, Finished Brass Top and Strainer Each,	11.50
Fig. 26-C, N. P. Brass Top and StrainerEach,	13.50

Dehn's "ACME" Floor Drain Adjustable with Continuous Pipe Trap (No Partitions), Re-inforced I. P. Threaded Outlet, and the Only Reliable Automatic Back Water Valve.

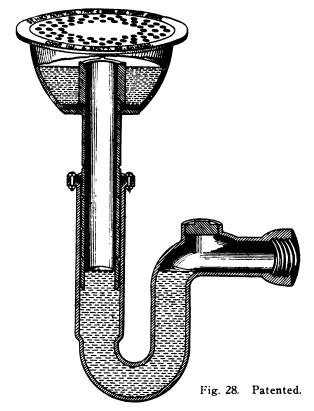


Our large line of Floor Drains should satisfy the most skeptical. Actual experience in the business has given us sufficient food for thought; these fixtures are the result of that decision.

3 ,	
Water SealInches,	4
Size of OutletInches,	2
Receiver above Outlet of Trap, Extreme HeightInches,	20
Receiver above Outlet of Trap, Lowest DepthInches,	8
Adjustment of Receiver from Lowest Depth to Ex-	
treme HeightInches,	12
Depth over allInches,	28
Length over aliInches,	14
Diameter of TopInches,	9
Average WeightPounds,	40
	\$11.50
Fig. 27-B, Finished Brass Top and StrainerEach,	17.50
Fig. 27-C, N. P. Brass Top and StrainerEach,	19.50

A new Floor Drain and Hopper combined on page 65.

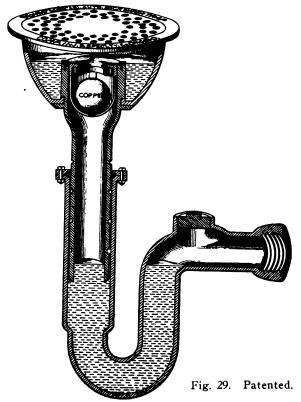
Dehn's "ACME" Floor Drain with Adjustable Continuous Pipe Trap (No Partitions), Large Brass Taper-Threaded Clean-Out Plug and Re-inforced Iron Pipe Threaded Outlet.



Fireproof buildings require a Durham Pipe system. In these buildings, usually all the horizontal piping work is suspended from the bottom of the beams. These floor drains are the most practical and satisfactory to install in connection with this system.

Water SealInches,	4
Size of Outlet	2
Receiver above outlet of Trap, Extreme HeightInches,	20
Receiver above outlet of Trap, Lowest DepthInches,	8
Adjustment of Receiver from Lowest Depth to Extreme	
HeightInches,	12
Depth over allInches,	18
Length over allInches,	14
Diameter of TopInches,	8
Average WeightPounds,	45
	\$ 8.00
Fig. 28-B Finished Brass Top and Strainer Each,	13.00
Fig. 28-C N. P. Brass Top and StrainerEach,	15.00

Dehn's "Acme" Floor Drain with Adjustable Continuous Pipe Trap (No Partitions), Large Brass Taper-Threaded Clean-Out Plug, and Re-inforced Iron Pipe Threaded Outlet, and the Only Reliable Automatic Back Water Valve.

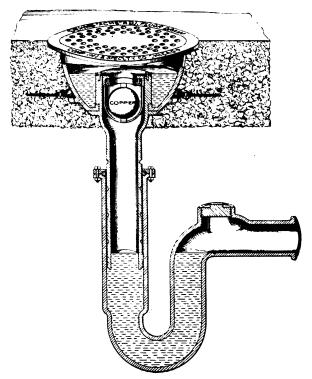


Architects and Contractors will safe-guard the health of their clients by specifying our Sanitary Specialities.

Water Seal Inches, Size of Outlet Inches, Receiver above outlet of Trap, Extreme Height Inches, Receiver above outlet of Trap, Lowest Depth Inches,	4 2 20 8
Adjustment of Receiver from Lowest Depth to Extreme	12
Height	28
Depth over allInches,	
Length over allInches,	14
Diameter of topInches,	9
Average WeightPounds,	40
Fig. 29-A Iron Top and Strainer Each,	\$13.00
Fig. 29-B Finished Brass Top and StrainerEach,	19.00
Fig. 29-C N. P. Brass Top and StrainerEach,	21.00

To prevent the choking of waste pipes, refer to page 113.

Dehn's "Acm E" Floor Drain with Continuous Pipe Trap (No Partitions) and Water-Tight Expansion Joint-Shelf and Anchors, for Cement, Tile or Mosaic Floors.



Patented and Patents Pending.

These Floor Drains are especially designed for fire-proof and concrete constructed buildings. In the past, it has been experienced when installing the ordinary floor drains, in concrete with cement, mosaic or tile floors, that it is impossible to make a water-tight joint on the floor at the drain around the receiver. This results in the water leaking through the ceiling onto the floor below, damaging merchandise or other material and causing serious loss.

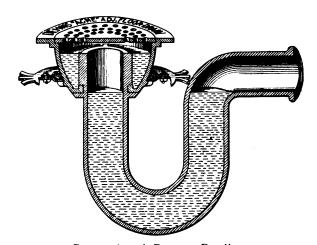
With the improvements on our Dehn's "ACME" Floor Drains with water-tight expansion joint-shelf and anchors, we can positively guarantee that the water will not find an opening at the drain to leak through the ceiling. The water-tight expansion joint-shelf is so constructed that after the fixture is installed the iron ring on the shelf is bolted down, which expands the non-absorbent gasket to the extent of forcing it tight against the receiver.

#### (Continued.)

The water-tight joint so formed retains the water in the cement until setting is accomplished and passes away by the natural process of evaporation instead of draining through to the ceiling and floor below. Not only is immediate leakage prevented in this construction but a perfect setting of the cement is made and seepage of the water through the joint at subsequent times due to the imperfect joint, prevented.

These fixtures are indispensable for use in toilet and bathrooms, laundries, swimming-pools, factories and store buildings, etc., where the drain is installed above the basement.

The water-tight expansion joint-shelf and anchors can be furnished for every type and size of our "ACME" line of Floor Drains. These fixtures being entirely new, we are sure you will agree with us that they are invaluable.



Patented and Patents Pending.

Dehn's "AcME" Floor Drain with Continuous Pipe Trap (No Partitions) and Water-Tight Expansion Joint Shelf and Anchors for Cement, Mosaic or Tile Floors.

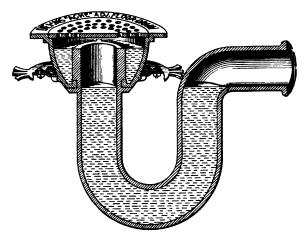


Fig. 30. Patented and Patents Pending.

For concrete, tile or mosaic floors, this drain cannot be equalled. See Pages 46-47 for full specifications.

Water SealInches,	4	4	4
Size of OutletInches,	2	3	4
Diameter of TopInches,	8	9	12
Depth over allInches,	10	13	15
Length over allInches,	12	14	21
Receiver above outlet of TrapInches,	2	2	2
Approximate WeightPounds,	25	40	65
Fig. 30-A. Iron Top and Strainer Each,	\$ 7.00	\$10.00	\$14.00
Fig. 30-B. Brass Finished Top and			
StrainerEach,	12.00	16.00	20.00
Fig. 30-C. N. P. Brass Top and Strainer. Each,	14.00	18.00	22.00

Dehn's "Acme" Floor Drain with Continuous Pipe Trap (No Partitions) and Water-Tight Expansion Joint Shelf and Anchors for Cement, Mosaic or Tile Floors, and the Only Reliable Automatic Back Water Valve.

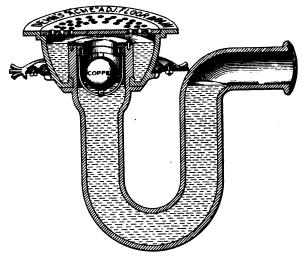


Fig. 31. Patented and Patents Pending.

These Floor Drains can be installed to good advantage in buildings of brick or frame construction when bath-rooms are finished with cement, mosaic or tile floors.

Water SealInches,	4	4	4
Size of OutletInches,	2	3	4
Diameter of TopInches,	9	10	12
Depth over allInches,	11	13	15
Length over allInches,	13	14	21
Receiver above outlet of TrapInches,	2	2	2
Approximate WeightPounds,	30	45	75
Fig. 31-A. Iron Top and Strainer Each,	\$12.00	\$15.00	\$20.00
Fig. 31-B. Brass Finished Top and			
Strainer Each,	18.00	22.00	28.00
Fig. 31-C. N. P. Brass Top and Strainer. Each,	20.00	24.00	31.00

Dehn's "Acme" Floor Drain with Continuous Pipe Trap (No Partitions), and Water-Tight Expansion Joint Shelf, and Anchors with large Brass Taper-Threaded Clean-Out Plug.

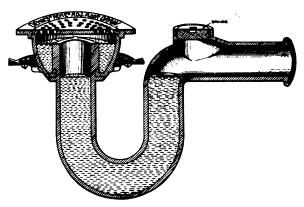


Fig. 32. Patented and Patents Pending.

Dehn's "ACME" Floor Drains are manufactured in more than one hundred (100) styles and sizes for every type of installation. Endorsed and recommended by Sanitary Engineers and Plumbing Inspectors everywhere.

Water SealInches,	4	4	4
Size of OutletInches,	2	3	4
Diameter of TopInches,	8	9	12
Depth over allInches,	10	13	15
Length over allInches,	18	20	22
Receiver above outlet of TrapInches,	2	2	2
Average WeightPounds,	30	45	75
Fig. 32-A. Iron Top and Strainer Each,	\$ 9.00	\$13.00	\$18.00
Fig. 32-B. Brass Finished Top and			
Strainer Each,	14.00	19.00	26.00
Fig. 32-C. Brass N. P. Top and Strainer. Each,	16.00	21.00	29.00

Dehn's "Acme" Floor Drain with Continuous Pipe Trap (No Partitions), with Water-Tight Expansion Joint Shelf and Anchors, with Large Brass Taper-Threaded

Clean-Out Plug, and the Only Reliable

Automatic Back Water Valve.

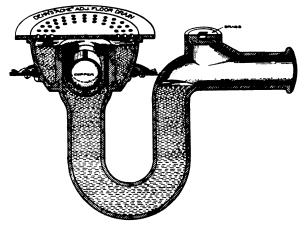


Fig. 33. Patented and Patents Pending.

Dehn's "ACME" Floor Drains can be furnished in Iron, Brass Finished or Brass N. P. Top and Strainer, with or without Automatic Back Water Valves and with top or side vent opening.

Water Seal		4 2	4 3	4 4
Size of Outlets	Inches,	9	10	12
Depth over all		11 18	13 20	15 22
Length over all		2		2
Average Weight	Pounds,		50	80
Fig. 33-A Iron Top and Strainer Fig. 33-B Finished Brass Top and	Each,	\$13.00	\$17.00	\$23.00
Strainer	•	19.00	24.00	31.00
Fig. 33-C N. P. Brass Top and Strainer	Each,	21.00	26.00	34.00

To avoid explosions in garages, see page 82.

Dehn's "ACME" Floor Drain with Adjustable Continuous
Pipe Trap (No Partitions) and Water-Tight Expansion Joint Shelf and Anchors.

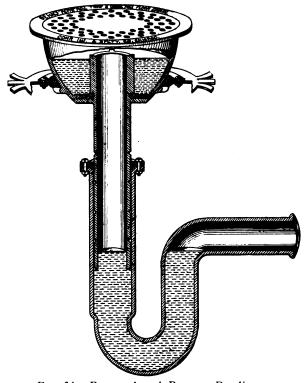


Fig. 34. Patented and Patents Pending.

Water SealInches,	4
Size of OutletInches,	2
Receiver above outlet of Trap, Extreme HeightInches,	20
Receiver above outlet of Trap, Lowest DepthInches,	8
Adjustment of Receiver from Lowest Depth to Extreme	
HeightInches,	12
Depth over allInches,	28
Length over allInches,	14
Diameter of TopInches,	8
Average WeightPounds,	40
Fig. 34-A Iron Top and StrainerEach,	\$10.00
Fig. 34-B Finished Brass Top and StrainerEach,	15. <b>0</b> 0
Fig. 34C N. P. Brass Top and StrainerEach,	17.00

Dehn's "Acm E" Floor Drain with Adjustable Continuous Pipe Trap (No Partitions), with Water-Tight Expanion Joint Shelf and Anchors, and with the Only Reliable Automatic Back Water Valve.

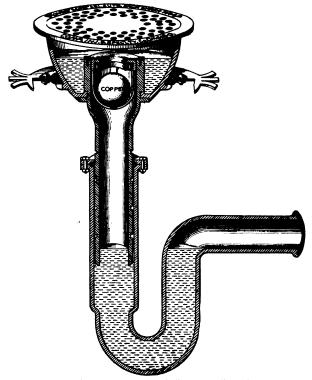


Fig. 35. Patented and Patents Pending.

Water Seal Inches, Size of Outlets	
Receiver above outlet of Trap, Extreme HeightInches, Receiver above outlet of Trap, Lowest DepthInches, Adjustment of Receiver from Extreme Height to Lowest DepthInches, Depth over allInches, Length over allInches,	4
Receiver above outlet of Trap, Lowest DepthInches, Adjustment of Receiver from Extreme Height to Lowest DepthInches, Depth over allInches, Length over allInches,	2
Adjustment of Receiver from Extreme Height to Lowest Depth	20
Lowest Depth	8
Depth over all	
Length over allInches,	12
	28
To the	14
Diameter of TopInches,	9
Average WeightPounds,	45
Fig. 35-A Iron Top and StrainerEach, \$1	00.6
Fig. 35-B Finished Brass Top and StrainerEach, \$2	.00
Fig. 35-C N. P. Brass Top and StrainerEach, 2	3.00

A new Floor Drain and Hopper combined on page 65.

Dehn's "ACME" Floor Drain with Adjustable Continuous
Pipe Trap (No Partitions), with Water-Tight Expansion Joint Shelf and Anchors, and with Large
Brass Taper-Threaded Clean-Out Plug.

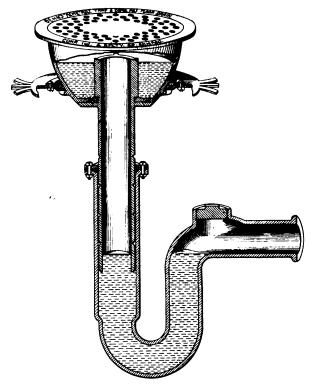


Fig. 36. Patented and Patents Pending.

Water Seal	4 2
Size of Outlet	20
Receiver above outlet of Trap, Lowest DepthInches,	8
Adjustment of Receiver from Lowest Depth to Extreme HeightInches,	12
Depth over alllnches.	28
Length over all	14
Diameter of TopInches,	. 8
Average WeightPounds,	
Fig. 36-A Iron Top and StrainerEach,	\$11.50
Fig. 36-B Finished Brass Top and StrainerEach,	16.50
Fig. 36-C N. P. Brass Top and StrainerEach,	18.50

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Dehn's "ACM E" Floor Drain with Adjustable Continuous
Pipe Trap (No Partitions), with Water-Tight Expansion Joint Shelf and Anchors, with Large Brass
Taper-Threaded Clean-Out Plug, and with
the Only Reliable Automatic Back
Water Valve.

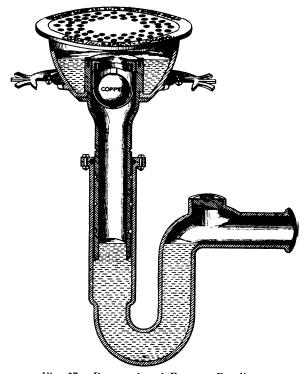


Fig. 37. Patented and Patents Pending.

Receiver above outlet of Trap, Extreme HeightInches,	4 2 0 8
Adjustment of Receiver from Lowest Depth to Extreme	
	2
Depth over all	8
Length over allInches,	4
Diameter of TopInches,	9
Average Weight	5
Fig. 37-A Iron Top and Strainer Each, \$16.50	0
Fig. 37-B Finished Brass Top and StrainerEach, 22.5	
Fig. 37-C N. P. Brass Top and StrainerEach, 24.50	0

To prevent the choking up of waste pipes, refer to page 113.

Dehn's "AcME" Floor Drain with Continuous Pipe Trap (No Partitions), with Water-Tight Expansion Joint Shelf and Anchors, and with Re-inforced Iron Pipe

Threaded Outlet.

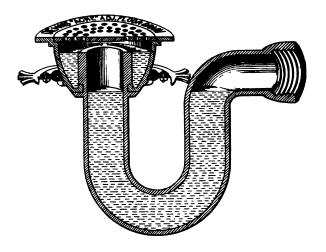


Fig. 38. Patented and Patents Pending.

Water SealInches,	4	4	4
Size of OutletInches,	2	3	4
Diameter of TopInches,	8	. 9	12
Depth over allInches,	10	13	15
Length over allInches,	12	14	21
Receiver above outlet of TrapInches,	2	2	2
Approximate WeightPounds,	30	45	70
Fig. 38-A. Iron Top and StrainerEach,	\$ 8.50	\$12.00	\$17.00
Fig. 38-B. Brass Finished Top and			
Strainer Each,	13.50	18.00	25.00
Fig. 38-C. N. P. Brass Top and Strainer. Each,	15.50	20.00	28.00

Dehn's "Acme" Floor Drain with Continuous Pipe Trap (No Partitions), with Water-Tight Expansion Joint Shelf and Anchors. With Re-inforced Iron Pipe

Threaded Outlet, and the Only Reliable

Automatic Back Water Valve.

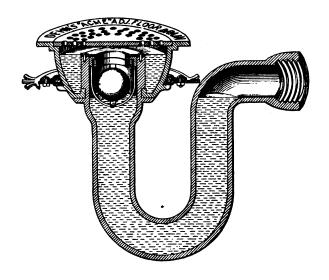


Fig. 39. Patented and Patents Pending.

Water SealInches,	4	4	4
Size of OutletsInches,	2	3	4
Diameter of TopInches,	9	10	12
Depth over allInches,	11	13	15
Length over allInches,	13	14	21
Receiver above outlet of TrapInches,	2	2	2
Approximate WeightPounds,	35	50	80
Fig. 39-A. Iron Top and Strainer Each,	\$13.50	\$17.00	\$23.00
Fig. 39-B. Finished Brass Top and			
Strainer Each,	19.50	24.00	31.00
Fig. 39-C. N. P. Brass Top and Strainer. Each,	21.50	26.00	34.00

Dehn's "A CM E" Floor Drain with Continuous Pipe Trap (No Partitions), with Water-Tight Expansion Joint Shelf and Anchors. With Reinforced Iron Pipe

Threaded Outlet and Large Brass TaperThreaded Clean-Out.

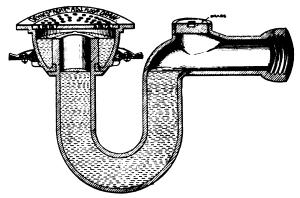


Fig. 40. Patented and Patents Pending.

Water SealInches,	4	4	4
Size of OutletInches,	2	3	4
Diameter of TopInches,	8	9	12
Depth over allInches,	10	13	15
Length over allInches,	18	20	22
Receiver above outlet of TrapInches,	2	2	2
Average WeightPounds,	35	50	80
Fig. 40-A. Iron Top and StrainerEach,	\$10.50	\$15.00	\$21.00
Fig. 40-B. Brass Finished Top and			
Strainer Each,	15.50	21.00	29.00
Fig. 40-C. N. P. Brass Top and Strainer. Each,	17.50	23.00	32.00

Dehn's "Acme" Floor Drain with Continuous Pipe Trap (No Partitions), with Water-Tight Expansion Joint Shelf and Anchors, with Re-inforced Iron Pipe Threaded Outlet and Large Brass Taper-Threaded Clean-Out Plug. With the Only Reliable Automatic Back Water Valve.

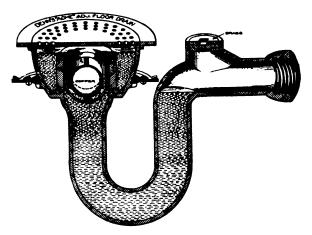


Fig. 41. Patented and Patents Pending.

Water SealInches,	4	4	4
Size of OutletsInches,	2	3	4
Diameter of TopInches,	9	10	12
Depth over allInches,	11	13	15
Length over allInches,	18	20	22
Receiver above outlet of TrapInches,	2	2	2
Average WeightPounds,	40	55	85
Fig. 41-A. Iron Top and Strainer Each,	\$14.50	\$19.00	\$26.00
Fig. 41-B. Finished Brass Top and			
Strainer Each,	20.50	26.00	34.00
Fig. 41-C. N. P. Brass Top and Strainer. Each,	22.50	28.00	37.00

To avoid explosion in garages, see page 82.

Dehn's "Acme" Floor Drain with Adjustable Continuous
Pipe Trap (No Partitions), with Water-Tight Expansion Joint Shelf and Anchors, with Re-inforced
Iron Pipe Threaded Outlet.

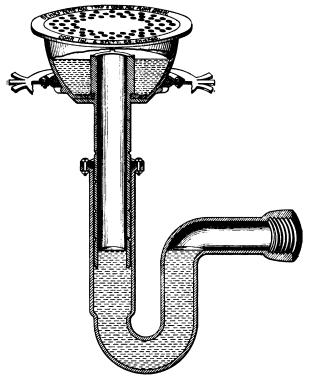


Fig. 42. Patented and Patents Pending.

Water SealInches,	4
Size of OutletInches,	2
Receiver above outlet of Trap, Extreme HeightInches,	20
Receiver above outlet of Trap, Lowest DepthInches,	8
Adjustment of Receiver from Lowest Depth to Extreme	
HeightInches,	12
Depth over ailInches,	28
Length over allInches,	14
Diameter of TopInches,	8
Approximate WeightPounds,	45
Fig. 42-A Iron Top and StrainerEach,	\$11.50
Fig. 42-B Finished Brass Top and StrainerEach,	16.50
Fig. 42-C N. P. Brass Top and StrainerEach,	18.50
60	

Dehn's "A CM E" Floor Drain with Adjustable Continuous
Pipe Trap (No Partitions), with Water-Tight Expansion
Joint Shelf and Anchors. With Re-inforced Iron
Pipe Threaded Outlet and the Only Reliable
Automatic Back Water Valve.

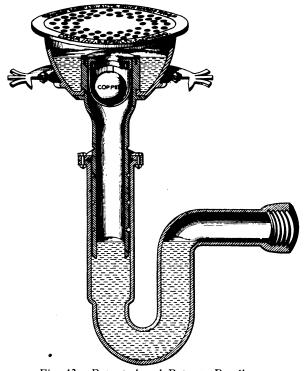


Fig. 43. Patented and Patents Pending.

Water Seal	2 20
Adjustment of Receiver from Lowest Depth to Extreme	
HeightInches.	12
Depth over all	28
Length over all	14
Diameter of TopInches,	9
Average WeightPounds	. 50
Fig. 43-A Iron Top and Strainer Each,	\$16.50
Fig. 43-B Finished Brass Top and Strainer Each,	22.50
Fig. 43-C N. P. Brass Top and StrainerEach,	24.50

A new Floor Drain and Hopper combined on Page 65.

Dehn's "AcME" Floor Drain with Adjustable Continuous
Pipe Trap (No Partitions), with Water-Tight Expansion Joint Shelf and Anchors. With Large Brass
Taper-Threaded Clean-Out Plug and Re-inforced
Iron Pipe Threaded Outlet.

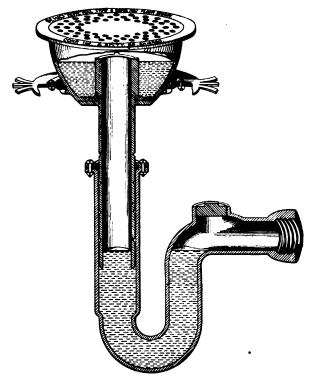


Fig. 44. Patented and Patents Pending.

Water Seal	4 2
Receiver above outlet of Trap, Extreme HeightInches,	20
Receiver above outlet of Trap, Lowest DepthInches,	8
Adjustment of Receiver from Lowest Depth to Extreme	
HeightInches,	12
Depth over allInches,	28
Length over allInches,	14
Diameter of TopInches,	8
Average WeightPounds	, 45
Fig. 44-A Iron Top and StrainerEach,	<b>\$13.0</b> 0
Fig. 44-B Finished Brass Top and StrainerEach,	18.00
Fig. 44-C N. P. Brass Top and StrainerEach,	20.00

Dehn's "A CM E" Floor Drain with Adjustable Continuous Pipe Trap (No Partitions), with Water-Tight Expansion Joint Shelf and Anchors. With Large Brass Taper-Threaded Clean-Out Plug with Re-inforced Iron Pipe Threaded Outlet, and the Only Reliable Automatic Back Water Valve.

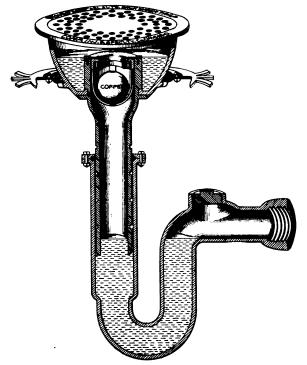
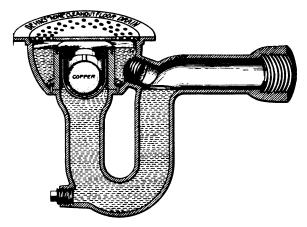


Fig. 45. Patented and Patents Pending.

Water SealInches,	4
Size of Outlet	2
Receiver above outlet of Trap, Extreme HeightInches,	20
Receiver above outlet of Trap, Lowest DepthInches,	8
Adjustment of Receiver from Lowest Depth to Extreme	
HeightInches,	12
Depth over allInches,	28
Length over allInches,	14
Diameter of TopInches,	9
Average WeightPounds,	50
Fig. 45-A Iron Top and StrainerEach,	\$18.00
Fig. 45-B Finished Brass Top and Strainer Each,	24.00
Fig. 45-C N. P. Brass Top and StrainerEach,	<b>26.0</b> 0

To prevent the choking up of waste pipes, refer to Page 113.

# Dehn's "Acme" Floor Drain with Continuous Pipe Trap (No Partitions), with Re-Fill Water Supply Connection at Trap.



Patented and Patents Pending.

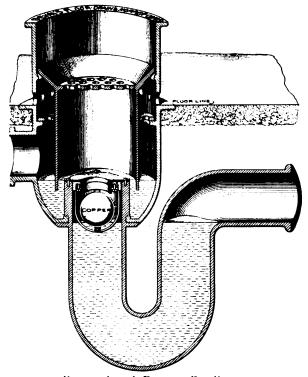
All our floor drains can be furnished with Iron Pipe Re-fill water supply connection, notwithstanding, these connections are not required when installing our deep water seal traps.

It has been experienced that cesspools with shallow water-seal traps break the seal in a comparatively short time after installation. This condition causes some of the Sanitary Engineers to require re-fill connections. At its best, the re-fill water connection is not practical, owing to the fact that it very seldom receives attention after the floor drain is installed. If this were an automatic arrangement some results might then be expected.

In our practice, we have experienced that the best results can be obtained with deep water-seal traps. In this, you, no doubt, will agree with us, these are the most practical and satisfactory fixtures to install.

Prices submitted upon request.

Dehn's "ACME" Floor Drain and Hopper Combined, with Continuous Pipe Trap (No Partitions).



Patented and Patents Pending.

With these fixtures you can overcome the nuisance of refrigerator waste pipes discharging into the basement on the floor. From illustration, you will observe that the Hopper extends above the floor a sufficient height to utilize the fixture as a regular sink or slophopper. When flushing the floor, the water will find its way into the perforations, which are on a level with the flange and flush with the floors. The Hopper connecting with the trap in the ground and being imbedded in the concrete and cement, makes this fixture rigid for hard usage. These fixtures can also be furnished with 2" and 4" Hub Connections at the side of the Hopper below the cement floor to receive over-flows from cisterns and other connections under the cement floor, such as weeping or drain tile, as you will observe from succeeding pages. See Pages 68 and 69 for illustration.

See our new Water-Tight Floor Drain for cement, tile or mosaic floors on Page 46.

#### Dehn's "AcmE" Floor Drain and Hopper Combined, with Continuous Pipe Trap (No Partitions).

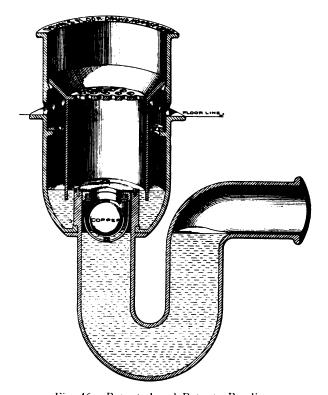


Fig. 46. Patented and Patents Pending.

This is a very convenient fixture for basements, laundry rooms. etc. See Page 65 for full specifications.

Water SealInches,	4	4	4
Size of OutletInches,	2	3	4
Diameter of TopInches,	9	9	12
Depth over allInches,	22	24	27
Receiver above outlet of TrapInches,	11	13	14
Length over allInches,	12	14	21
Approximate WeightPounds	s, 50	60	100
Fig. 46-A Iron Top and Strainer Each,	\$16.00	\$18.00	\$25.00

Dehn's "Acme" Floor Drain and Hopper Combined, with Continuous Pipe Trap (No Partitions), with Hub for Connection Below Floor, and with the Only Reliable Automatic Back Water Valve.

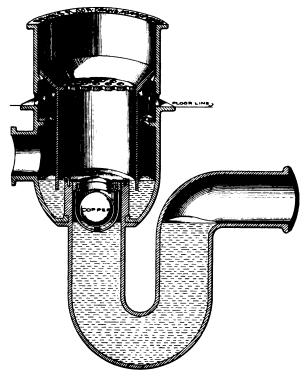


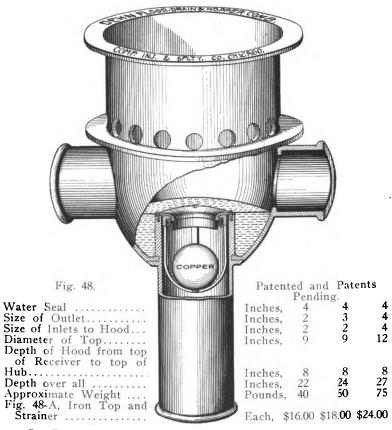
Fig. 47. Patented and Patents Pending.

Note Hub connection at side of hopper as described on Page 65.

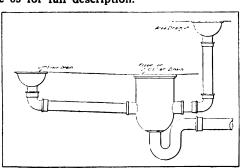
Water SealInche	es, 4	4	4
Size of OutletInch	es, 2	3	4
Size of Inlet to HoodInch	es, 2	2	4
Diameter of TopInches	es, 9	9	12
Depth of Hood from Top of receiver to			
Top of HubInche	es, 8	8	8
Depth over allInche	es, 22	24	27
Receiver above outlet of TrapInche	es, 11	13	14
Length over allInche	es, 18	20	24
Approximate WeightPour	ids, 30	50	100
Fig. 47-A Iron Top and Strainer Each	, \$18.00	\$20.00	\$27.00

To avoid explosions in Garages, see Page 82.

# Dehn's "ACME" Floor Drain and Hopper Combined, with Hubs for Connections under Floors, Straight Outlet, with the Only Reliable Automatic Back Water Valve.



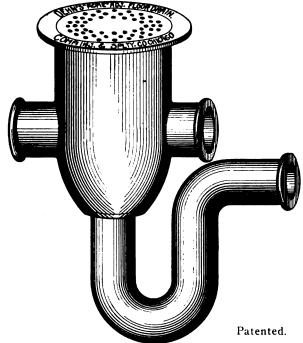
See Page 65 for full description.



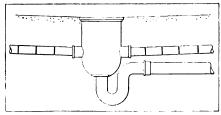
Method of installation for receiving additional fixtures.

68

Dehn's "Ac M E" Floor Drain with Continuous Pipe Trap (No Partitions), with Large Receiving Hood and Hubs for Connections Below Floors.



These fixtures are designed for localities where there are difficulties experienced with surface water finding its way through the cellar walls and under cement floors. Where these difficulties are experienced, the basements are, as a general rule, very damp and unhealthy. Such basements cannot be occupied or made use of for any purpose. The dampness from these basements, also, as a rule, finds its way up through the living rooms. You will invariably find sickness in families who occupy buildings where these conditions exist. This, at least, has been our experience, which resulted in designing these fixtures. The trade will, no doubt, agree with us that these fixtures fill a long-felt want.



This will give you an idea of how the fixture appears when connected with drain tile.

A new Floor Drain and Hopper combined on Page 65.

Dehn's "Acme" Floor Drain with Continuous Pipe Trap (No Partitions), with Large Receiving Hood and Hubs for Connections Below Floor.

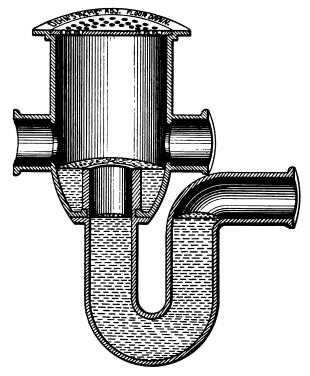
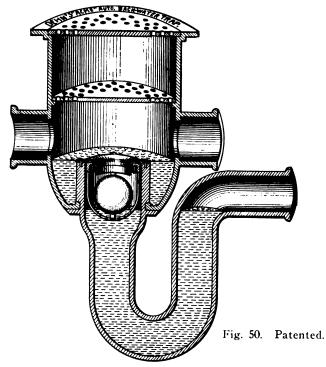


Fig. 49. Patented.

For full specifications, see Page 69.

Water Seal Inches, Size of Outlet Inches, Size of Inlet to Hood Inches, Diameter of Top Inches, Depth of Hood from Top of Receiver to	4 2 2 9	4 3 2 9	4 4 4 12
Top of HubInches,	9	10	12
Depth over allInches,	17	19	20
Receiver above outlet of TrapInches,	11	13	14
Length over allInches,	12	14	21
Average WeightPounds,	35	40	90
		\$ 9.00	\$14.00
Fig. 49-B Finished Brass Top and			•
Strainer Each,	14.00	16.00	22.00
Fig. 49-C N. P. Brass Top and StranerEach,	16.00	18.00	25.00

Dehn's "AcME" Floor Drain with Continuous Pipe Trap (No Partitions), with Large Receiving Hood and Hubs for Connection Below Floor, with the Only Reliable Automatic Back Water Valve.



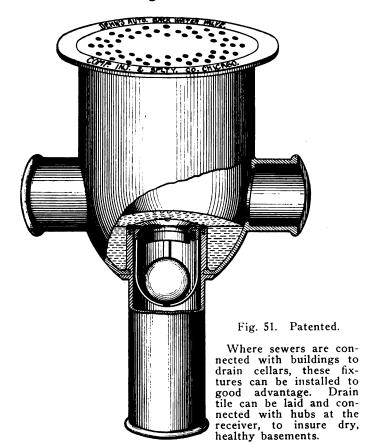
Where health and comfort are taken into consideration, install these fixtures. The Hub Inlets can be connected with cistern overflow and for draining surface water, etc. See Page 69.

Water SealInches,	4	4	4
Size of OutletInches,	2	3	4
Size of Inlets to HoodInches,	2	2	4
Diameter of TopInches,	9	9	12
Depth of Hood from Top of Receiver to			
Top of HubInches.	10	10	12
Receiver above outlet of TrapInches,	12	13	14
Depth over allInches.	18	19	20
Length over allInches,	13	14	21
Average WeightPounds,		50	100
Fig. 50-A Iron Top and StrainerEach,	\$12.00	\$14.00	\$19.00
Fig. 50-B Finished Brass Top and			
Strainer Each,	18.00	21.00	27.00
Fig. 50-C N. P. Brass Top and			
StrainerEach,	<b>2</b> 0. <b>00</b>	23.00	30.00

To prevent the choking up of waste pipes, refer to Page 113.

Dehn's "Acme" Floor Drain with Large Receiving Hood and Hubs for Connections Below Floor. With the Only Reliable Automatic Back Water Valve.

Straight Outlet.



Water SealIn	iches, 4	4	4
Size of OutletIn	iches, 2	3	4
Size of Inlets to Hoodln	iches, 2	2	4
Diameter of TopIn	iches, 9	9	12
Depth of Hood from Top of Receiver to			
Top of HubIn	iches, 10	10	12
Depth over allIn	ches, 18	18	20
Average WeightPo	ounds, 35	40	65
Fig. 51-A, Iron Top and Strainer Ea	ach, \$10.00	\$12.00	<b>\$16.0</b> 0
Fig. 51-B, Finished Brass Top and			
Strainer Ea	ach, 16.00	19.00	24.00
Fig. 51-C, N. P. Brass Top and Strainer Ea	ach, 18.00	<b>21.0</b> 0	<b>27.00</b>

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### Dehn's "ACME" Automatic Back Water Valve for Sewer Tile or Soil Pipe.

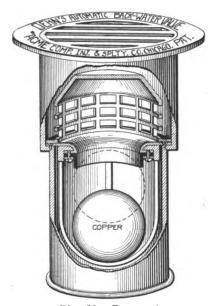


Fig. 52. Patented.

These Automatic Back Water Valves can be connected to sewer tile, extending up to cellar or area floors, which are provided with a regular Trap in the ground and where Back Water Valves are required to prevent the flooding of basements from the water backing up through the cellar or area Floor Drains.

These Valves can be caulked into a Soil Pipe Hub when cast iron pipe is used in the ground. For old buildings which are provided with sewer tile or cast iron sewers, these Automatic Back Water Valves can be easily and quickly installed without extra fittings. Valves are protected with a basket in the bonnet. This will prevent sticks, string or other foreign matter from obstructing the Valve Seat.

Size of Outlet		Tile 4 51/2	
Depth over all		8	
Approximate Weight	. Pounds,	8	
Price, Iron Top and Strainer		<b></b> .	Each, \$5.00
Size of Outlet	.Inches, Sewer	Tile 6	Soil Pipe 4
Size of Outlet	.Inches,		
Diameter of Top	. Inches, . Inches, . Pounds,	7½ 10 15	_

See our new Water-Tight Floor Drain for cement, tile or mosaic floors, on Page 46.

## Dehn's "AcmE" Floor Drain with Large Adjustable Receiver. Straight Outlet.

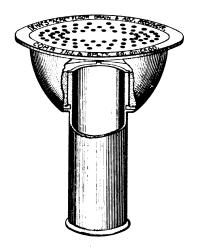


Fig. 53. Patented.

These Floor Drains are especially designed for use in cellars and area ways, where the sewers are put deep down in the ground.

The Trap connecting with Floor Drain can be put in place when the main sewer is put in. When the cellars and area ways are about to be cemented and the level and pitch of the floors have been ascertained, the Floor Drains can be connected properly without any difficulty, loss of time or material.

Size of Outlet	2	3	4
Diameter of TopInches,	9	9	12
Depth over allInches,	12	12	12
Approximate WeightPounds,	15	20	30
Fig. 53-A Iron Top and Strainer Each, \$	3.00	\$ 4.00	\$ 5.00
Fig. 53-B Finished Brass Top and			
Strainer Each,	9.00	11.00	13.00
Fig. 53-C N. P. Brass Top and			
StrainerEach.	11.00	13.00	16.00

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# Dehn's "Acme" Floor Drain with Large Adjustable Receiver, Straight Outlet, with the Only Reliable Automatic Back Water Valve.

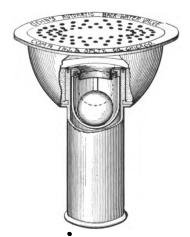


Fig. 54. Patented.

Frequently, back water valves are to be installed in old drainage systems, when it is experienced that water floods the basements, through the floor or area drains.

This Floor Drain, with the **Only Reliable** Automatic Back Water Valve, can be easily and quickly installed to overcome such difficulties.

Size of Outletlnches,	2	3	4
Diameter of TopInches,	9	9	12
Depth over allInches,	12	12	12
Approximate WeightPounds,	20	25	35
Fig. 30-A Iron Top and StrainerEach,	\$ 6.00	<b>\$ 7.0</b> 0	\$ 9.00
Fig. 30-B Finished Brass Top and			
Strainer Each,	12.00	14.00	17.00
Fig. 30-C C. N. Brass Top and			
StrainerEach,	14.00	16. <b>0</b> 0	20.00

To avoid explosions in Garages, see Page 82.

#### Dehn's "ACME" Adjustable Large Hood Vent Cap.

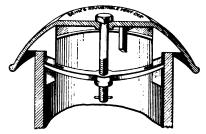


Fig. 55. Patented.

If you use Vent Caps, you want the best. Our large, extra heavy, Adjustable Hood Vent Caps, are designed to fit a standard or extra heavy soil pipe, on butt or cut end. They are provided with a Malleable Iron Saddle. This material (Malleable Iron) is the most suitable to hold fast onto the cast iron pipe. The Vent Cap is easily and quickly fastened in place by turning the square head bolt entering through the cap and which is connected with the saddle. It is very strong and cannot get out of place after once fastened permanently. (No set screws to break off.) Full area of pipe open to allow the air to enter or escape. No joints to caulk. Use up your soil pipe without hubs. Honce tried, always used.

#### Dehn's "ACME" Adjustable Flush Vent Pipe Protector.

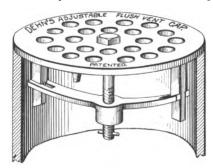


Fig. 56. Patented.

Our Adjustable Flush Vent Pipe Protectors are manufactured on the same principles and of the same materials as our Extra Heavy Large Hood Vent Caps and can be attached to vent pipes at the side of buildings and in the sidewalks.

Price, Extra Heavy......Each, 40c

#### Dehn's "Acm E" Adjustable Floor Drain Grate and Strainer.

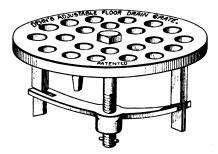


Fig. 57. Patented.

Our Adjustable Floor Drain Grates and Strainers are manufactured on the same principle and of the same kind of material as our Flush Vent Caps, and can be used to good advantage wherever a pipe protector is required. Easily and quickly adjusted.

Price, Extra Heavy, Painted......Each, 40c

These Floor Drain Grates can also be furnished in Brass. Prices upon application.

#### Dehn's "ACME" Bar Strainer.



Fig. 58.

Size .......Inches, 4 5 6 7 8 9 10 13
Painted.......Each, 20c 25c 30c 40c 65c 80c \$1.20 \$1.75

These Bar Strainers can also be furnished in brass. Prices upon application.

A new Floor Drain and Hopper combined on Page 65.

#### Dehn's "Acme" Refrigerator Drain, Receiver and Trap.

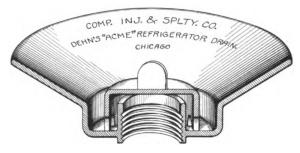
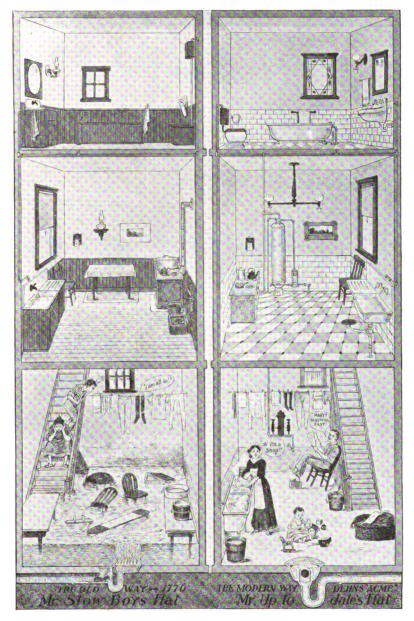


Fig. 59.

A modern hygienic refrigerator or ice-box drain is herewith illustrated. The TIN FUNNEL never was intended for refrigerator or ice-box drains. The trade is familiar with the insalutory condition that exists where these funnels have been installed. IT IS YOUR DUTY TO PROTECT THE HEALTH OF YOUR CLIENTS. This you can do when installing our Sanitary "ACME" Refrigerator Drain, made of cast iron and galvanized. Most convenient to install. The refrigerator can be moved out without interfering with the drain. Accessible for cleaning and flushing. A deep water-seal is maintained in the basin.

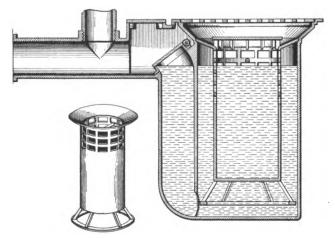
Diameter of TopInches,	8
Size of Outlet, threaded for I. PInches,	11/4
Height over alllnches,	21/2
Approximate WeightPounds,	5
Price Each.	\$1.00



Copyrighted

Having thus described our "Acme" line of Floor Drains, you can compare their use with the old way or "Mr. Slow-Boy's" way of doing business. He is still in the same old rut to-day. The above illustration is self-explanatory.

### Dehn's "PeerlesS" Floor Drain with Automatic Back Water Valve.



Patent Pending.

These Floor Drains are especially adapted for Public Buildings, Schools, Factories, Apartment Houses and Public Comfort Stations. For Government and heavy duty work, these Floor Drains are in a class by themselves. They have no equal.

The receptacle inside of the basin will positively prevent mud, sand, sticks and other foreign matter from getting down into the outlet of the trap, thus preventing the sewer from choking up and allowing the Back Water Valve to be in working order at all times. When it is experienced that the receptacle is filled with mud, and other material, it can be easily lifted out of the basin and emptied by anyone. We call your special attention to the Deep Water Seal in these fixtures.

### Dehn's "PeerlesS" Floor Drain with Automatic Back Water Valve.

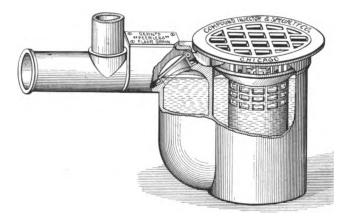


Fig. 60. Patented.

These Floor Drains are especially recommended for installation in buildings where the water carries with it mud, sand and other matter washed from Automobiles, Vehicles, or where heavy accumulations find their way into the Floor Drains. It will be observed that the hand-hole is flush with the floor, making it readily accessible. The bar-grate on these fixtures is extra heavy, so that it will safely allow heavy vehicles to drive over same.

Water SealInches	, 5	5
Size of OutletInches	, 2	4
Diameter of TopInches	, 9	12
Depth over allInches	10	13
Length over allInches	, 22	24
Vent OpeningInches	, 2	2
Approximate WeightPound	s, 50	100
Fig. 60-A Iron Top and StrainerEach,	\$12.00	\$15.00
Fig. 60-B Finished Brass Top and Strainer Each,	18.00	23.00
Fig. 60-C N. P. Brass Top and StrainerEach,	20.00	26.00

To prevent the choking up of waste pipes, refer to Page 113.

#### Dehn's "PEERLESS" Garage Floor Drains.

These Floor Drains have been especially designed for use in Automobile Garage Floors. The Catch Basin is provided with a large receptacle for receiving mud, sand and other matter which may be washed from automobiles, vehicles, etc. With this arrangement, the matter can accumulate for some time and not interfere with the operation of the drain. When it becomes necessary to remove the accumulation, the receptacle can be lifted out of the basin and emptied by anyone in a few minutes.

The grate bar and deflecting hood in the air-chamber will prevent sticks, straw and other material from getting down into the receptacle. The basin is provided with a large air-chamber between the top bar strainer and the water seal. This air-chamber is provided with Hub Vent Outlet Connections on either side of the basin, from which Vent pipes can be conveyed to the outside of the building. With this arrangement, the waste gasoline flowing into the basin will evaporate and the fumes or gases escape to the outside of the building. The vent pipes can be so arranged that a current of fresh air will be continually flowing through the air-chamber of the basin. This will prevent any gases from forming in the basin, hence, the Garage will be absolutely free of dangerous gases or bad odors.

Notice—Illustration on Page 85, "A Model Garage," equipped with our system of drainage and ventilation.

#### Dehn's "PEERLESS" Garage Floor Drain.

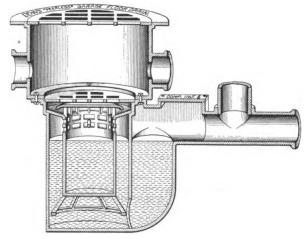


Fig. 61. Patented.

These Floor Drains are especially designed for use in small public or private Garages. From accompanying illustration, it will be observed that the Receiving Hood is provided with Vent Hub openings on either side of hood, from which Vent Pipes can be carried to the outside of the building to allow the fumes or gases from the waste gasoline to escape. The construction of these fixtures are the most practical, sanitary and reliable for the purpose intended.

Water Scal	Inches,	5
Size of Outlet	Inches,	4
Size of Vent Hub Connections	Inches,	2
Diameter of Top	Inches,	15
Depth over all	Inches,	22
Length over all	Inches,	24
Approximate Weight	Pounds,	175
Price, Iron Top and Strainer	Each,	\$25.00

See our new Water-Tight Floor Drain for cement, tile or mosaic floors, on Page 46.

#### Dehn's "PEERLESS" Garage Floor Drain.

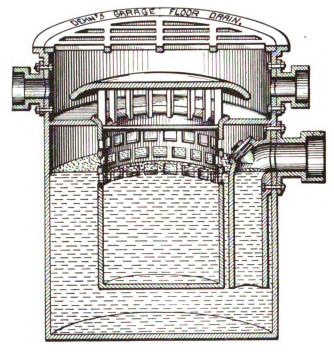
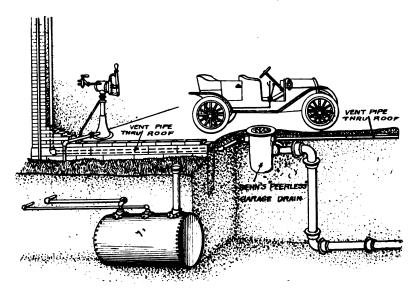


Fig. 62. Patented.

These Floor Drains should be installed in every Automobile Garage to prevent accidents, resulting from the formation of gases; also to prevent the sewers from choking up. The mud, sand and other matter which may be washed from the automobiles, vehicles, etc., will accumulate in the receptacle, as the construction of this drain is so arranged that the force of the water cannot send it out of the basin into the outlet to the sewer. When it becomes necessary to remove this accumulation, the receptacle can be lifted out of the basin and emptied.

Diameter of TopInches,	20	20	20	20
Size of Waste OutletInches,	4	4	4	4
Depth over allInches,	30	38	46	54
Vent Hub ConnectionsInches,	2	2	2	2
Approximate WeightPounds,	400	500	600	700
Price, Iron Top and Strainer Each,	\$50.00	\$65.00	\$80.00	\$95.00

#### A MODEL GARAGE,



#### Equipped with Our "PeerlesS" Garage Floor Drain.

When our "PeerlesS" Garage Floor Drains are installed, the ventilation in the Garage is perfect and no difficulty is experienced with choked sewers.

From illustration you will observe that Vent Pipes connect with the Hubs at the sides of the airchamber and are carried under the floors to the side of the building, extending independently out through the roof.

A new Floor Drain and Hopper combined, on Page 65.

### Dehn's "AcME" I. P. Size Threaded Brass Cover, Ferrule or Clean-Out.



Fig. 63.

The problem of solving the difficulties now experienced with all the clean-out plugs or tees on the market is no task when installing our brass cover, iron pipe size threaded clean-out. The coarse taper-threaded Brass Cover will not stick in the iron ferrule but will make a tight joint under the most rigid test.

Size	lnches,	2	3	4
Price	Per Dozen,	\$3.60	\$4.80	\$6.00
Price, Special, X. II	Each,	.50	.70	.85

#### Dehn's "AcmE" I. P. Size Threaded, Brass Cover, Clean-Out Tee.

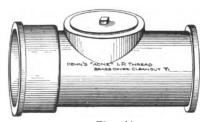


Fig. 64.

This Clean-Out Tee has all the advantages of the above-described clean-out plug. These can be installed to good advantage when laying runs and erecting stacks without extra fittings or joints.

SizeInches,	2	4
Price, X. HEach,		
86		

### Dehn's "AºME" Iron Pipe Size Threaded, Brass Cover, Test Tee.

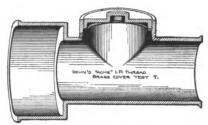


Fig. 65.

This test tee is especially arranged to allow the inserting and removing of the test plug instantly, regardless of the angle or locality they are installed. The tee is provided with a large extra heavy Iron Pipe Size threaded brass cover. This makes it convenient to screw in place or remove the cover without any difficulty. The kind of test tee your Plumbing Inspector approves of. A High-Grade Fixture. For underground installation, the hand-hole can be extended to any desired height by inserting a 2" or 3½" nipple with coupling to receive the brass plug.

Size	Inches,	2	4
Price, Extra Heavy	Each,	\$1.50	\$3.00

## Dehn's "AcME" Iron Pipe Size Threaded, Brass Cover, Test and Clean-Out Tee with 45° Angle Branch.

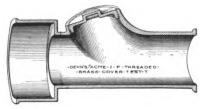


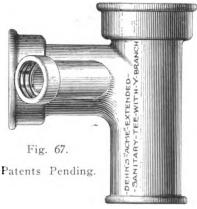
Fig. 66.

This test or clean-out tee is designed to be installed where it is anticipated trouble is liable to arise with stoppage of the sewers. Figure 65 specifications cover this fixture.

SizeInches,	4
Price, Extra HeavyEach,	

To avoid explosions in Garages, see Page 82.

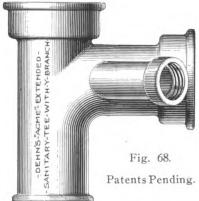
#### Dehn's "AcmE" Extended Sanitary Tee with Y Branch.



Independent bathroom fixture waste connections to stacks, are required in a great many cities and in cities where this method of waste connections is not required, it very often happens that the waste from fixtures are connected direct with stack for convenience sake. With Dehn's "ACME" Extended Sanitary Tee and Y Branch, you can overcome the difficulty of making the connections at the stack under the partition in the recess or under the ceiling. The branches are sufficiently extended to conveniently allow the installation of the Closet Bend, Bath and Lavatory connections. A fitting highly commended by all Sanitary Engineers.

Size—R. H. Y Branch I. P. threadedInches,	2
Size—Sanitary T BranchInches,	4
Price—Extra Heavy Each	\$4.00

#### Dehn's "ACME" Extended Sanitary Tee with Y Branch.



Dehn's "AcmE" Extended Sanitary Tee with Left Hand Y Branch. Fig. 67 Specifications cover this fixture.

· Size—L. H. Y Branch, I. P. threadedInches,	2
Size—Sanitary T BranchInches,	
Price—Extra Heavy Each	

#### Dehn's "AcmE" Extended Sanitary Tee with Y Branches.

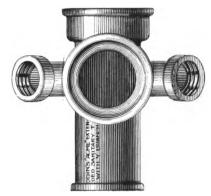


Fig. 69. Patents Pending.

Dehn's "ACME" Extended Sanitary Tee with Right and Left Hand Y Branches can be installed to good advantage when the stack is so located that the closet must be placed in the center of the space between the Lavatory and Bath Tub, also when other fixtures are installed in rooms on the opposite side of partition of Bathroom. These fittings were designed with the most careful consideration as to their usefulness and for convenience of installation.

Size—R. & L. Hand Y Branch, I. P. threadedInches,	2
Size—Sanitary T BranchInches,	4
Price—Extra HeavyEach	\$5.00



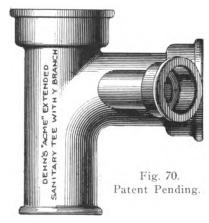
Top view on Dehn's "ACME" Extended Sanitary Tee with Y Branches. Patents Pending.

From the top elevation of Extended Sanitary Tec with Y Branches, you can fully comprehend the arrangement of the openings. The Y Branch Openings actually discharge direct into the stack. The four (4) inch Sanitary T Branch is extended sufficiently to allow the Y Branches to face flush with Tee Branch, making it convenient to make all connections out in front of partitions.

A new Floor Drain and Hopper combined on Page 65.

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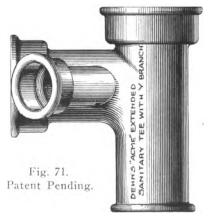
#### Dehn's "ACME" Extended Sanitary Tee with Y Branch.



The Hub Y branch connection on Sanitary Tee can be installed to good advantage when soil pipe is desired for waste connections, also when threaded Iron Pipe is used for waste and objection is made to making final connection to stack with Union or with R. & L. coupling.

Size, RH. Y Branch	2
Size, Sanitary Tee Branch	4
Price, Extra Heavy Each,	\$3.00

#### Dehn's "Acm E" Extended Sanitary Tee with Y Branch.



Dehn's "ACME" Extended Sanitary Tee with Left-Hand and Y Branch. Fig. 70 specifications cover this fixture.

Size, LH. Y Branch	2
Size, Sanitary Tee Branch	4
Price, Extra Heavy Each,	\$3.00
90	

#### Dehn's "ACME" Extended Sanitary Tee with Y Branches.

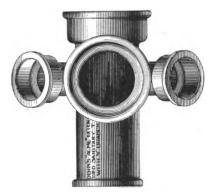
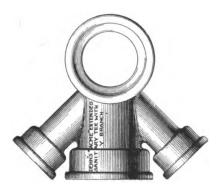


Fig. 72. Patent Pending.

Modern Conveniences are a necessity. Modern Plumbing Fixtures and Fittings are also a necessity. Our "ACME" Extended Sanitary Tees with Extended Y Branches are most desirable and convenent to install. A trial order will convince you.

Size, R. and LHand Y BranchesInches,	2
Size, Sanitary Tee BranchInches,	. 4
Price Extra Heavy	\$4.00



Patent Pending.

Top View Dehn's "AcmE" Extended Sanitary Tee with Y Branches.
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### Dehn's "A⊆ME" Extended Sanitary Tee, Vented with Y Branch.

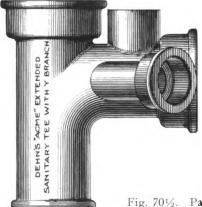


Fig. 701/2. Patents Pending.

In cities where venting of closet bends is required and where top openings are desired close to the bends, our Extended Sanitary Tee vented with Y Branch will meet these requirements.

Size, R. H. Y. BranchInches,	2
Size, Sanitary T Vented BranchInches,	4
Size Vent OpeningInches,	2
Price, Extra ileavyEach,	\$3.50

### Dehn's "Acm E" Extended Sanitary Tee Vented with Y Branch.

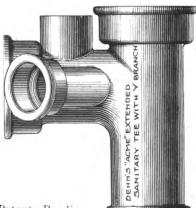


Fig. 711/2. Patents Pending.

The usefulness of this fixture is explained in above Fig. 70½. This one being the same, with this difference, that Fig. 70½ is a Right-Hand and Fig. 71½ a Left-Hand Extended Sanitary Tee vented with Y Branch.

Size, L. H. Y BranchInches,	2
Size, Sanitary Tee Vented BranchInches.	4
Size Vent OpeningInches,	2
Price, Extra Heavy Each,	<b>\$3.5</b> 0

92

#### Dehn's "ACME" Extended Sanitary Tee with Y Branches.

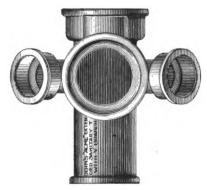
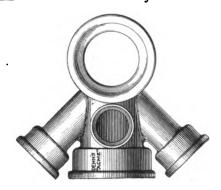


Fig. 721/2. Patents Pending.

The venting of the various fixtures depends largely upon local conditions; at least, that has been our experience, which is the result of our large line of Sanitary Specialties. It is our aim to meet every condition.

Size, R. and LHand Y BranchInches,	2
Size, Sanitary T Vented BranchInches,	4
Size Vent OpeningInches,	2
Price, Extra HeavyEach,	\$4.50

#### Dehn's "ACME" Extended Sanitary Tee with Y Branches.



Top View. Patents Pending.

The Vent or Top Opening is so arranged that it can be used for waste connection from Lavatory or Bath Tub, or both if necessary.

To prevent the choking of waste pipes, refer to Page 113.

### Dehn's "AcME" Iron Drum Trap, Iron Pipe Size, Threaded, Nickel Plated, Heavy Brass Cover.

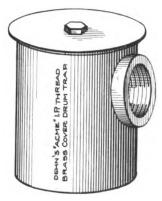


Fig. 73. Bottom Inlet.

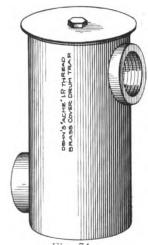


Fig. 74.
Two Openings.

When installing our "ACME" Iron Drum Traps, the Brass Nickel Plated Cover can be replaced with a common three-inch (3") Iron Pipe Steam Plug. This can be used for testing and protecting the top opening of the Drum Trap until after all the fixtures are installed, when the Brass Nickel Plated Cover can be put in place in first-class condition. In this construction, you can overcome the wear and tear on the cover, to which they are usually subjected if left on the trap body when the roughing-in is first put in place.

Price, 4x5-inch Painted, two 1½-inch openings, tapped I. P. Each, \$2.50.

Price, 4x8-inch Painted, two 1½-inch Openings, tapped I. P. Each, \$2.75.

For enameled inside, add \$1.50.

#### Dehn's "Acme" Iron Drum Trap, Iron Pipe Size, Threaded, Nickel Plated, Heavy Brass Cover.

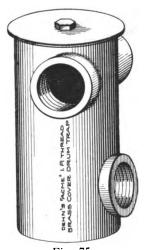


Fig. 75.
Three Openings.

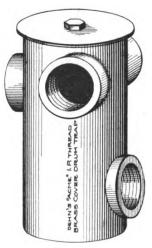


Fig. 76. Four Openings.

Our "ACME" Iron Drum Traps are of the highest standard of workmanship, combined with the highest quality of material.

Price, 4x8-inch Painted, three 1½-inch openings, tapped I. P. Each, \$3.50.

The four (4) opening Drum Traps are installed in localities where it is necessary to vent the drum trap. This is also a convenient trap to install where it is desired to discharge waste from independent fixtures into trap.

Price, 4x8-inch Painted, four 1½-inch Openings, tapped I. P. Each, \$4.00. For enameled inside, add \$1.50.

See our new Water-Tight Floor Drain for cement, tile or mosiac floors, on Page 46.

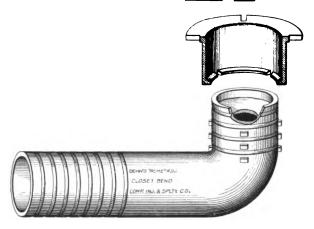


Fig. 77. Patent Pending.

The trade has long since experienced that the lead bend with iron, combination or brass ferrule must be replaced with some suitable material of more lasting quality. An iron bend that is adjustable for the convenience of installation is in demand. A practical sanitary Iron Closet Bend containing these features can be produced and is herewith illustrated, as our "ACME" Iron Adjustable Closed End Closet Bend. It will be observed from illustration that the flanged collar can be adjusted four inches (4"), hence, the bend can be installed for six or eight-inch (6 or 8") joists.

Price, Fig. 77—4x15-inch, X. H. Plain........................ Each, \$3.50

#### Dehn's "ACME" Iron Adjustable Closed End Closet Bend.

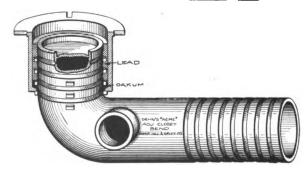


Fig. 78. Patents Pending.

Unless otherwise advised, bends tapped 2" will be shipped.

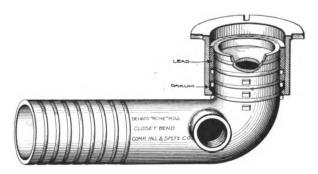


Fig. 79. Patents Pending.

These Bends are most practical, economical and sanitary to install. The Hub or Collar can be adjusted to the desired height and position and will remain in place by the support of the lugs on the side of the bend, making it convenient to caulk the collar in place. The Closed End overcomes the nuisance of inserting and removing testing plugs and the end is protected until the closet bowl is installed. The "ACME" of Perfection.

#### Dehn's "Acm 2" Iron Adjustable Closed End Closet Bend.

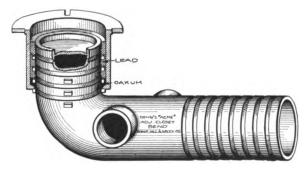


Fig. 80. With Eccentric Openings. Patents Pending.

97

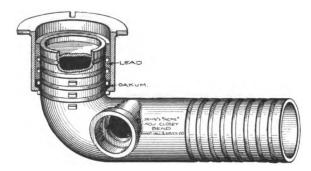


Fig. 81. Patents Pending.

Our "ACME" Iron Adjustable Closed End Closet Bends make the most sanitary waste connections manufactured. They are the most practical and least expensive to install. Approved in a great many cities by the Boards of Health. A sample order will convince you that our Bends can be installed with the least material and make a most satisfactory job.

Price, Fig. 81-4x15-inch X. H. with 2" R.-H. Hub Inlet., Each, \$4.00

#### Dehn's "ACM E" Iron Adjustable Closed End Closet Bend.

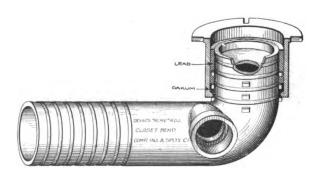


Fig. 82. Patents Pending.

Price, Fig. 82-4x15-inch X. II. with 2" L.-H. Hub Inlet. Each, \$4.00

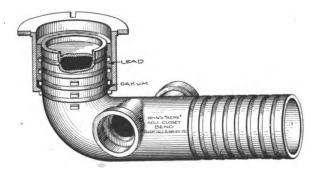


Fig. 83. Patents Pending.

Our "ACME" Iron Adjustable Closed End Closet Bends can be installed in old buildings where six or eight-inch (6 or 8") joists are in use. The bend can be cut off on both ends. Illustration represents a 3" flanged collar or hub on the bend. We can furnish flanged collars 134" deep, 2½" deep and 3" deep.

#### Dehn's "AcmE" Iron Adjustable Closed End Closet Bend.

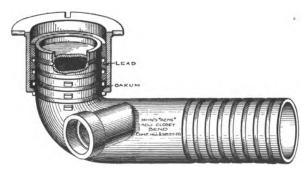


Fig. 84. Patents Pending.

Price, Fig. 84-4x15-inch X. H. with R.-H. Hub Y Branch. Each, \$4.00

To avoid explosions in Garages, see Page 82.

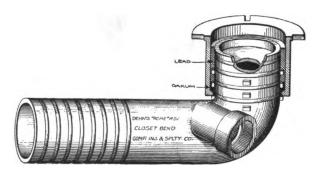


Fig. 85. Patents Pending.

Our Dehn's "ACME" Closed End Closet Bend with Y Branch connections allows the extending of 2" soil pipe to adjoining rooms. These connections can be used for waste from two or more fixtures or waste from fixtures which have large outlets. The hub inlet opening also can be used for vent connections which at the same time can receive waste from other fixtures.

Price, Fig. 85-4x15-inch X. H. with L.-H. Hub Y Branch. Each, \$4.00

#### Dehn's "AcmE" Iron Adjustable Closed End Closet Bend.

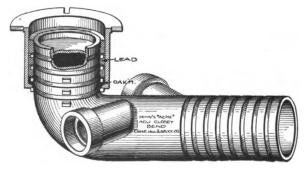


Fig. 86. With Eccentric Openings. Patents Pending.

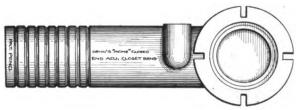


Fig. 87. Patents Pending.

Our Dehn's "ACME" Closed End Closet Bends with raised inlet iron pipe tapped openings are required in some localities. From succeeding illustrations, you will observe that we manufacture a full line of bends of this construction, for every type of installation. These bends are provided with a flanged collar with lugs on the side of the bend and slots on the flanged collar, similar to the bends on the preceding pages.

#### Dehn's "AcmE" Iron Adjustable Closed End Closet Bend.

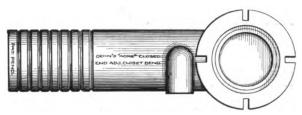


Fig. 88. Patents Pending.

A new Floor Drain and Hopper combined on Page 65.



Fig. 89. With Eccentric Openings. Patents Pending.

From illustrations on the following page you will observe that it is a very easy matter to order an assortment of flanged collars with the bends. A stock of assorted flanged collars on hand will overcome delay and unnecessary expense.

#### Dehn's "ACME" Iron Adjustable Closed End Closet Bend.



Fig. 90. Patents Pending.

# Dehn's "A CM E" Iron Adjustable Closed End Closet Bend.

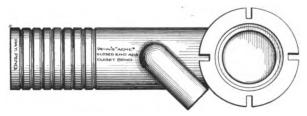


Fig. 91. Patents Pending.

From illustrations on the following pages, you will observe that it is a very easy matter to order an assortment of flanged collars with the bends. A stock of assorted flanged collars on hand will overcome delays and unnecessary expense.

## Dehn's "AcmE" Iron Adjustable Closed End Closet Bend.

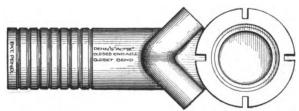
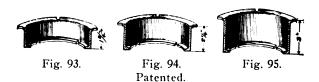


Fig. 92. With Eccentric Openings. Patents Pending.

Our ACME" Iron Adjustable Closed End Closet Bends with the inlets on the forty-five (45) degree angle can be installed to good advantage when a stack is erected in the corner of the room.

To prevent the choking up of waste pipes, refer to Page 113.

# Dehn's "Acm E" Iron Adjustable Flanged Collars for our "Acm E" Iron Closet Bends.



# Dehn's "Acme" Brass Adjustable Flanged Collars for our "Acme" Iron Closet Bends.



Price,	Fig.	9611/4"	Brass	Flanged	Collar	Each,	\$1.50
Price,	Fig.	9721/4"	Brass	Flanged	Collar	Each,	1.50
Price,	Fig.	98—3"	Brass	Flanged	Collar	Each,	1.50

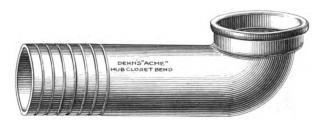


Fig. 99. Patented.

The Hub Closet Bends are in demand in some localities, and as it is our desire to supply every demand, we have added the Hub Bends to our large line of Adjustable **Closed End** Iron Closet Bends, making this the largest assortment of Iron Bends manufactured under one roof.

### Dehn's "Acm E" Iron Hub Closet Bends.

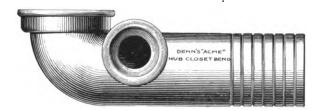


Fig. 100. Patented.

Price, Fig. 100—X. H. with 2" R.-H. Hub Inlet...... Each, \$2.75

A new Floor Drain and Hopper combined on Page 65.



Fig. 101. Patented.

When Hub Inlet Iron Bends are installed, all the connections to the bend should be hub connections. We consider the hub bend in a class by itself.

Price, Fig. 101—X. H. with 2" L.-II. Hub Inlet...... Each, \$2.75

### Dehn's "AcmE" Iron Hub Closet Bends.



Fig. 102. With Eccentric Patented Openings.

Price, Fig. 102-X. H. with 2" R. and L.-H. Hub Inlet . . . . Each, \$3.00

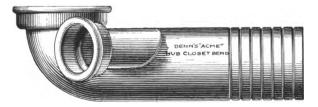


Fig. 103. Patented.

We desire to call your special attention to the fact that it is absolutely necessary to mention the figure number when ordering. If the number of the fixture desired is taken into consideration when ordering, unnecessary correspondence can be avoided, and the delay of holding up the order while endeavoring to ascertain what figure number is desired can be overcome.

#### Dehn's "ACME" Iron Hub Closet Bends.

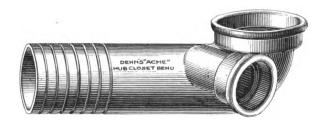


Fig. 104. Patented.

Price, Fig. 104—X. H. with 2" L.-H. Hub, 45° Angle Inlet.. Each, \$3.50

See our new Water-Tight Floor Drain for cement, tile or mosaic floors on Page 46.

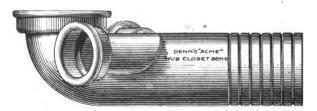


Fig. 105. Patented.

## "Dehn's "ACME" Adjustable Closed End Closet Extension.

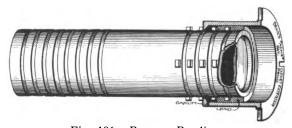


Fig. 106. Patents Pending.

When closets are installed in batteries and the soil pipe is suspended from the bottom of joists or put down in the ground, our "ACME" Adjustable Closed End Closet Extensions should appeal to you as being most desirable and practical to install.

Price,	Fig.	106—4x12"	Χ.	Н.	PlainEach,	\$3.00
Price	Fig	106-4×18"	X	11	Plain Each.	3.50

# "Dehn's "ACME" Adjustable Closed End Closet Extension.

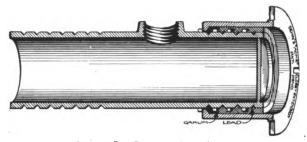


Fig. 107. Patents Pending.

With our "ACME" Adjustable Closed End Closet Extension, the flanged hub or collar can be adjusted to the desired height and position. These will remain in place by the support of the lugs on the side of the sleeve, making it convenient to caulk the collar in place. The Closed End overcomes the nuisance of inserting and removing testing plugs; the end is also protected until the closet bowl is installed. With our Closet Extension, you can fasten the bowl to the flange of the collar, making a complete and perfect connection on cement, tile or mosaic floors.

Price,	Fig.	107—4x12"	X.	Н.	2"	I.	P.	Threaded	Each,	\$3.50
Price.	Fig.	107-4x18"	X.	Н	2"	T	Р	Threaded	Fach	4 00

# "Dehn's "Acm E" Adjustable Closed End Closet Extension.

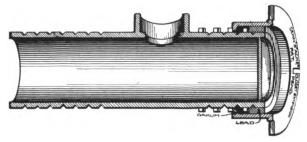


Fig. 108. Patents Pending.

Price,	Fig.	108—4x12"	X.	Н.	2"	Hub	Opening Each,	\$3.50
Price,	Fig.	108-4x18"	X.	Н.	2"	Hub	Opening Each,	4.00

To avoid explosions in Garages, see Page 82.

# Dehn's "Acm E" Iron Closet Extensions with Slip-Joint and Floor Flange.

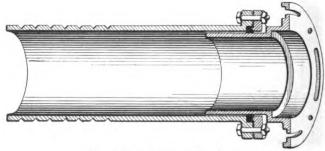


Fig. 109. Patents Pending.

These Closet Extensions are especially manufactured for concrete-constructed floors where the finish of the floor is cement, tile or mosaic. On concrete construction it has been experienced that the level of the floors varies greatly; hence, when installing our slip-joint extension sleeve, the sleeve with flange can be allowed to remain several inches above the proper level of the floor. When the closets are about to be installed, the flanged sleeve can be driven down to the linished floor to set the bowl. The flanged sleeve is tapered; in other words, it is much smaller on the lower end than on the flanged end, consequently, when the flanged sleeve is placed at its temporary height and the collar bolted down tight to the extent of expanding the gasket; after this is fastened, it will allow the flanged sleeve to be driven in place, making a still tighter joint on the lead gasket. From this explanation, you can appreciate the difficulty overcome when installing these slip-joint sleeve connections over the permanent connections.

# Dehn's "ACME" Iron Closet Extensions with Slip-Joint and Floor Flange.

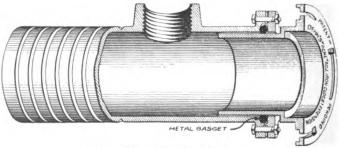


Fig. 110. Patents Pending.

Price, Fig. 110-4x12" X. H. 2" I. P. Threaded ............Each, \$3.50

### Dehn's Hygienic Grease Traps.

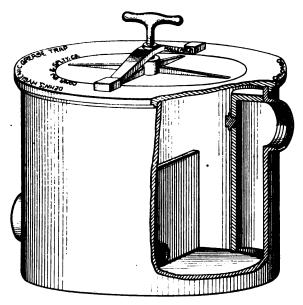


Fig. 111. Patented.

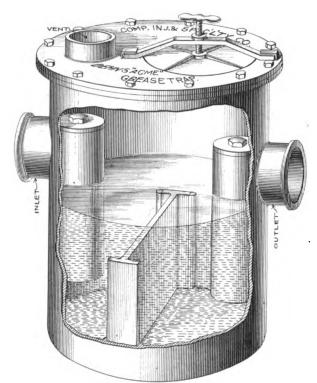
This Grease Trap is designed to absolutely prevent the escape of sewer gas and is not liable to syphon. This is readily accessible for cleaning, which can be done easily by anyone. The reseal opening in the partition positively seals the outlet to the sewer under all conditions.

#### NO PUTTY JOINTS. MADE OF FINE GREY IRON.

No part of the mechanism comes in contact with the fluid or grease in the trap. Sewer gas cannot escape into the rooms when cover is removed; the outlet is sealed under all conditions. These grease traps are provided with a Malleable Iron Saddle.

Size of Openings.  Length of Trap Width of Trap Depth of Trap Grease Space Average Weight	Inches, Inches, Inches, Inches,	13 9 9 6x11	Outlet 15	∕2 I. P.
Price, Fig. 111-A—Painted Inside a Price, Fig. 111-B—Enameled Insid Price, Fig. 111-C—Fnameled Insid	e and Pa	inted Outs	ide. Each,	15.00

We can furnish  $1\frac{1}{2}$  Brass Solder Unions with Straight or Bend Tail Pieces for Fig. 111 Grease Trap.



### Dehn's "AcmE" Double-Trapped Grease Traps.

Fig. 112. Patented.

These Grease Traps are especially designed for Two Flat work, large residences, restaurants and hotels. They are so constructed that the partition inside of the basin can be removed and replaced with a Water Jacket Partition. These Grease Catch Basins are approved by Sanitary Engineers and Boards of Health in all the leading cities.

Number  Diameter of Top  Depth over all	12	18-1 12 18	24-1 20 24	30-1 20 30	38-1 20 38	24-2 24 24	30-2 24 30	38-2 24 38
Size of Waste Inlet Connection		2	4	4	4	4	4	4
Size of Waste Outlet Connection		2	4	4	4	4	4	4
Size of Vent Hub Con- nection		1%	2	2	2	2	2	2
Price, Painted	\$18.00	\$20.00	\$30.00	\$40.00	\$55.00	\$50.00	862.00	\$75.00

These Catch Basins can be furnished enameled inside, if desired. Prices quoted upon application.

# Dehn's "A cm E" Double-Trapped Water Cooling Grease Trap.

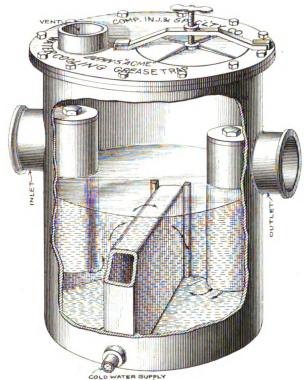


Fig. 113. Patented.

These Grease Catch Basins are designed to keep the water in the basin at a low temperature. By connecting the cold water supply pipe leading to kitchen sink or other fixtures with the water jacket in basin, the water in the basin will be continually chilled to a very low temperature. As soon as the greasy water enters the basin, the grease congeals and floats to the top of the water. This grease can be very easily removed by anyone. The hand-hole is provided with a malleable iron Saddle and heavy thumb-screw.

Number	12	18-1 12 18	24-1 20 24	30-1 20 30	38-1 20 38	24-2 24 24	30-2 24 30	38-2 24 38
Size of Waste Inlet Connection	2	2	4	4	4	4	4	4
Size of Waste Outlet Connection	2	2	4	4	4	4	4	4
Size of Vent Hub Connection	14	114	2	2	2	4	4	4
Size of Water Supply Connection	3-4	3-4	3-4	3-4	3-4	1	1	1
Price, Painted						\$55.00	\$70.00	\$85.00

These Catch Basins can be furnished enameled inside, if desired. Prices quoted upon application.

# Dehn's "A cm E" Water Cooling Grease Trap for Iron Pipe Connections.

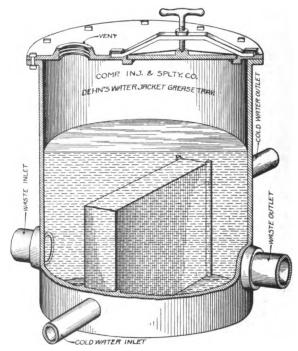


Fig. 114. Patented.

The Grease Catch Basin here shown is designed to keep the water in the basin at a low temperature by means of a special water jacket.

The cold water supply pipe leading to the kitchen sink is connected with the water jacket in basin. The water in the basin is thus continually chilled. As soon as the greasy water enters the basin, the grease congeals and floats to the top of the water. This can be easily removed through the hand-hole provided with a malleable iron saddle and a heavy thumb-screw.

Number		18-1	24-1	30-1	38-1	24-2	30-2	38-2
Diameter of Top		12	20	20	20	24	24	24
Depth over all	15	18	24	30	38	24	80	38
Size of Waste Inlet								
Connection	2	2	4	4	4	4	4	4
Size of Waste Outlet								
Connection	2	2	4	4	4	4	4	4
Size of Vent Hub								
Connection	11.	11.	2	2	2	2	2	2
Size of Water Supply								
Connection	3-4	3-4	3-4	3-4	3-4	1	1	1
Price, Painted	\$28.00	\$30.00	\$45.00		\$70.00	\$55.00	\$70.00	\$85.00

These Grease Catch Basins can also be furnished without water cooler.

Number....... 15-1 18-1 24-1 30-1 38-1 24-2 30-2 38-2 Price, Painted...... \$18.00 \$20.00 \$30.00 \$40.00 \$55.00 \$50.00 \$62.00 \$75.00

### Dehn's "PEERLESS" Water Jacket Grease Trap.



Fig. 115.

This Grease Trap is constructed so that the cold water supply is connected to a lower opening of water jacket, and supply taken from upper opening of water jacket to cold water faucet at sink or other fixtures. The cold water jacket surrounds the chamber containing the waste water from sink, congealing the grease that the water contains, holding same in suspension. This Grease Trap is recommended to be installed in the kitchens of restaurants, hotels, and other institutions. Where large quantities of grease are produced a grease trap is an important feature.

This Grease Trap conforms in every respect to Plate 37, June. 1910, Government Specifications.

Prices upon application.

## Dehn's "AcmE" Yard or Area Drainage Catch Basin.

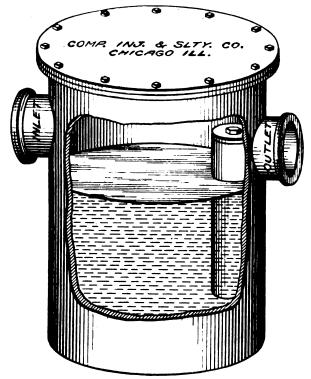


Fig. 116.

These Cast Iron Extra Heavy Drainage Catch Basins are provided with Extra Heavy Flush Cover fastened with machined bolts to flange of basin.

Price, Fig. 116Diameter 16", Depth 24"	\$20.00
Price, Fig. 116—Diameter 16", Depth 30"	22.00
Price, Fig. 116—Diameter 18", Depth 24"	23.00
Price, Fig. 116—Diameter 18", Depth 30"	24.00
Price, Fig. 116—Diameter 20", Depth 24"	
Price, Fig. 116—Diameter 20", Depth 30"	27.00
Price, Fig. 116—Diameter 20", Depth 38"	31.00
Price, Fig. 116—Diameter 24", Depth 24"	30.00
Price, Fig. 116—Diameter 24", Depth 30"	32.00
Price, Fig. 116—Diameter, 24", Depth 38"	36.00
Price, Fig. 116—Diameter 24", Depth 46"	42.00
Price, Fig. 116—Diameter 24", Depth 54"	48.00
Price, Fig. 116—Diameter 30", Depth 30"	38.00
Price, Fig. 116—Diameter 30", Depth 38"	44.00
Price, Fig. 116—Diameter 30", Depth 46"	50.00
**	

Hubs are for 4" or 6" Cast Iron and Vitrified Pipe. Two Hubs furnished with each basin. Additional Hubs, \$3.00 each, net. Prices on larger basins furnished upon application.

## Dehn's "Acm E" Cast Iron Blow-Off or Gravel Catch Basin.



Fig. 117.

Price, Fig. 117—Diameter 16", Depth 24"	\$20.00
Price, Fig. 117—Diameter 16", Depth 30"	22.00
Price, Fig. 117—Diameter 18", Depth 24"	23.00
Price, Fig. 117—Diameter 18". Depth 30"	24.00
Price, Fig. 117—Diameter 20", Depth 24"	24.00
Price, Fig. 117—Diameter 20", Depth 30"	27.00
Price, Fig. 117—Diameter 20", Depth 38"	31.00
Price, Fig. 117—Diameter 24", Depth 24"	30.00
Price, Fig. 117—Diameter 24", Depth 30"	32.00
Price, Fig. 117—Diameter 24", Depth 38"	36.00
Price, Fig. 117—Diameter 24", Depth 46"	42.00
Price, Fig. 117—Diameter 24", Depth 54"	48.00
Price, Fig. 117—Diameter 30", Depth 30"	38.00
Price, Fig. 117—Diameter 30", Depth 38"	
Price, Fig. 117—Diameter 30", Depth 46"	50.00

Hubs are for 4" or 6" Cast Iron and Vitrified Pipe. Two Hubs furnished with each basin. Additional Hubs, \$3.00 each, net. Prices on larger basins furnished upon application.

#### PART TWO

of

# Dehn's Sanitary Specialty Catalogue

# Number Sixteen

On the succeeding pages we illustrate and describe

# **DEHN'S**

# Automatic Water Softener and Scale Removing Device

If you will read the contents carefully you can obtain full information how and where to connect these Devices with the various heating apparatuses

These have been on the market for more than fifteen years and are in universal use

#### HOT WATER FOR GENERAL DOMESTIC USE.

In a large percentage of cities and towns, heating apparatus of every make cannot successfully remain in operation for any great length of time, owing to the pipes, connections, coils, water-backs, heaters and boilers choking up with a mineral contained in the water pumped from the bowels of the earth, as shown in Plate 1.

These difficulties must be overcome by the hard-water consumer, and are due to the fact that nature made it necessary in the formation of this world that most of the water pumped from the bowels of the earth should be known as "hard" instead of "soft." The rea-

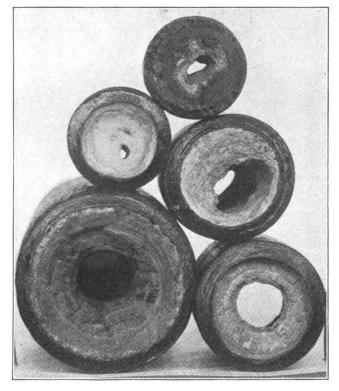


Plate 1.

son for this seems past finding out, or if the scientists know why it was necessary, they have not told us.

The rock formation of the world seems to be largely limestone, and water passing through it becomes impregnated with this lime to such an extent that it not only refuses to work in harmony with the compound known as soap, but it so incrusts waterbacks, coils in heaters and furnaces, flues in steam-boilers and connecting pipes, that in a comparatively short time they clog up or become ineffective.

To overcome this characteristic of limestone water has been a long and ardent study and an endless experiment. The observing

mechanic, as well as the careful housewife, has long since discovered that one of the greatest nuisances and most expensive items is this

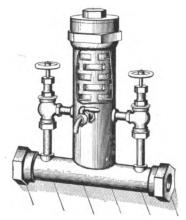


Plate 2.

adhesion of lime from hard water. It is stated that 90 per cent of the inland cities are supplied with hard water for domestic use.

Water impregnated with incrusting carbonates and sulphates of lime, magnesia and other incrusting minerals, causes not only loss of full value of heat and steam, but entails frequent repair bills. If

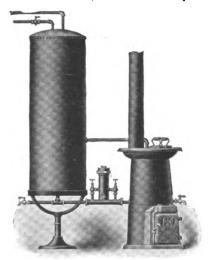


Plate 3.

scale can be prevented, there is a large saving of fuel and expense of repairs. It is stated that 1/8 inch of scale adds nearly one-fourth to the fuel bill.

When a water-back, coil, heater or boiler becomes so incrusted with lime, magnesia and other minerals that there is danger of a

complete stoppage, or when the incrustation becomes so thick on the walls of the casting that sufficient heat is not transmitted to the water, the water-back must be taken from the fire-box and cleaned or provided with an apparatus that will clean it.

To do so, the water is first shut off, the water emptied from the boiler and the pipes then disconnected, after which the casting can be lifted out of the range fire-box. The water is emptied from the boiler by opening the draw-off cock at the bottom of the boiler and turning on a hot-water faucet at some fixture in the building so that air will be admitted to the boiler to replace the water withdrawn. If air is not admitted to the boiler, no water will run out, but, on the contrary, it will remain air-bound within the tank, just the same as if a bottle of water be inverted. Sometimes, the hot-water pipes in a building are trapped, and air cannot flow into the boiler when a hot-water faucet is opened. When such is the case, the hot-water

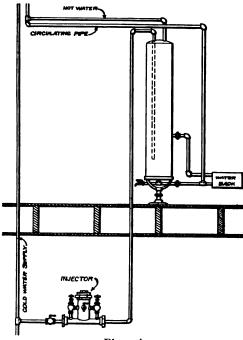


Plate 4.

supply coupling on top of the boiler should be uncoupled to let in the air.

Sometimes, the incrustation inside the water-back is flaky, and can easily be scaled off or detached by pounding the casting on all sides with a hammer and jarring the lime out of the pipe-openings by dropping it, the open end down, on a plank or block of wood provided for that purpose. When the scale is not so easily removed, particles can be detached by means of a long slender chisel, worked through the openings to break up the scale.

Sometimes, the incrusting material is of such quality or has been baked so hard to the sides of the water-back, coils, heater or boiler, that it cannot be removed by ordinary means; then it becomes neces-

sary to provide the heating apparatus with a device that will soften the water, or, in other words, separate the minerals in the water before it enters them, and then the old scale will gradually come off

as the soft water disintegrates the lime.

By making special provision against the deposits of lime, magnesia and other minerals in water-backs, coils, heaters and boilers, the incrustation can be entirely checked where water that is very hard must be heated. To prevent incrustration, the hard water must be neutralized or partly softened before admission to the heating apparatus. The water may be treated by a special apparatus, such as shown in Plate 2.

This is automatic in operation, and the feeder or chamber is supplied with a brick of a water-softening composition, the supply being automatically controlled by two valves on the apparatus, which can be regulated to such a point that all the water is neutralized

before it enters the heating apparatus.

The water-softening composition converts the sulphates and carbonates in the water into phosphates, which cannot harden, making the formation of scale an impossibility. This composition is harm-less when used in the water for culinary, drinking or toilet purposes. or, in other words, the water can be used for the same purposes as before the apparatus was installed.

For large institutions where large quantities of water are consumed daily, such as hotels, restaurants, hospitals, universities, barber shops, etc., it is recommended to connect the apparatus as shown

This is an elevation of a portion of a heater and range boiler, showing the apparatus connected in place. It will be observed that the range boiler and heater have the usual pipe-connections and that the apparatus is connected in the feed or cold-water pipe. After the apparatus has been installed and the water has been turned into the system, open the hot-water faucets to allow the grease and dope to leave the system (which usually enters the system when cutting the pipe and making new connections). When it is noticed that the water is clear and free from these impurities, turn the two valves off on the apparatus, open the drain cock at side of apparatus, then unscrew cover from top of apparatus, drop a "KomposT" brick (the water-softening composition) into the basket in feeder, screw cover down tight, close drain cock, then open the two valves one revolution, or less, when all will be ready for action as soon as fire is started in the heater.

It is claimed that one No. 6 "KomposT" brick of water-softening composition will neutralize from 3.000 to 5,000 gallons of hard water, all depending upon the acidity of the water. You can figure out how long a "KomposT" brick should last, which also depends on the quantity of hot water consumed. You can ascertain by the hardness of the water it the "KomposT" brick is consumed. It is important to have a fixed time for charging the apparatus. The sediment-cock at the bottom of range-boiler should be opened at least once a week to blow out the sediment and slush to keep the water from getting turbid.

For residences and smaller institutions the apparatus should be connected into the cold-water supply pipe supplying the range boiler,

as shown in Flate 4.

By connecting the apparatus in the cold-water supply pipe, all the cold water will be neutralized before entering the boiler and the water will circulate through the apparatus only when hot water is being drawn from the range boiler, hence, it will be impossible to have any lime, magnesia or other incrusting minerals accumulate in the pipe-connections, water back, heater or boiler.

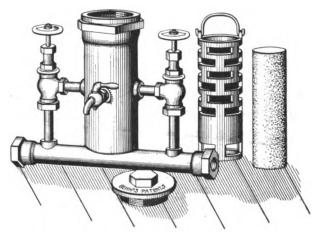


Plate 5.

Patented in U. S., Canada and Foreign Countries.

Dehn's Automatic Water Softener and Scale Removing Devices will positively overcome the accumulation of Lime, Magnesia and other incrusting minerals in Water Backs, Coils in Ranges, Furnaces and Heaters, Tank, Laundry or Automatic Instantaneous Heaters, Boilers, and wherever these difficulties are experienced.

These devices have now been on the market for more than fifteen years and are in universal use in all parts of the United States, Canada and foreign countries. They are installed in Residences, Hotels. Restaurants, City and Country Clubs, City, County and State Institutions, Barber Shops, Sanitariums, Hospitals, Universities, Colleges, etc.

We guarantee to prevent the Lime, Magnesia and other incrusting minerals from accumulating wherever this trouble has been experienced, if our Compound Injectors are installed and our "Kompost" Bricks used according to our directions. The Injectors are simple and durable: nothing to get out of repair; anyone can operate them after they are installed.

In the accompanying illustration we show a No. 5—¾" Compound Injector with the basket and "Kompost" Brick removed from interior of feeder. This is the smallest size and to be used for residences only.

The size of Injector required depends on the size of the pipe the Injector is to be connected with. The "Kompost" Brick will dissolve in the water regardless of how cold or hot it may be. For ordinary residence you can regulate the two valves on Injector so that contents of a "Kompost" Brick will last for several weeks, hence you can obtain neutralized water and be relieved of an endless trouble for the nominal sum of five dollars (\$5.00) per year.

The water can be used for the same purposes as it was before the Injector was installed. The No. 5-34-inch Compound Injectors are recommended for small Water Backs and Coils in Furnaces and Heaters.

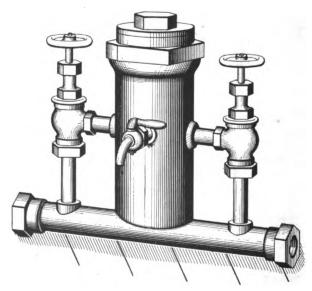


Fig. 118.
No. 5—¾-inch Compound Injector.
Patented and Patents Pending.

The No. 6—1-inch Compound Injectors are recommended for Large Water Backs, Small Tank, Laundry or Automatic Instantaneous Heaters and Furnace Coils.

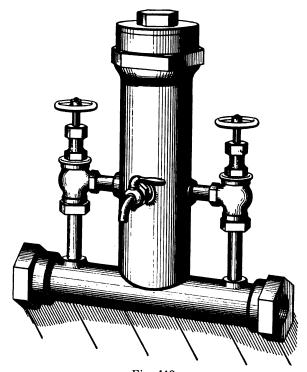


Fig. 119.
No. 6—1-inch Compound Injector.
Patented and Patents Pending.

Price, No. 6-1-inch Compound	Injector I. P Each, \$15.00	
Price, No. 6-"KomposT" Brick	Per Doz 4.20	

The No. 6-11/4-inch Compound Injectors are recommended for Tank Heaters, Large Coils, Gasoline Engines, etc.

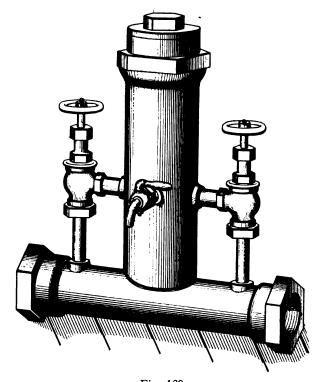


Fig. 120.
No. 6—1¼-inch Compound Injector.
Patented and Patents Pending.

Price, No. 6-11/4-inch Compound Injector I. P Each,	\$17.50
Price. No. 6—"KomposT" Brick Per Doz	4 20

The No. 6—1½-inch Compound Injectors are recommended for Tank Heaters, Crematories, Feed Water Heaters, Low and High Pressure Steam Boilers, etc.

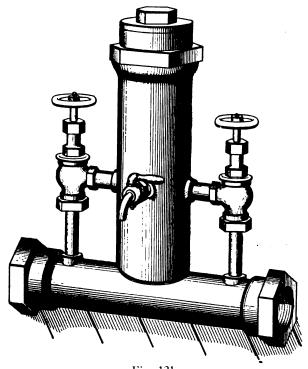


Fig. 121.
No. 6—1½-inch Compound Injector.
Patented and Patents Pending.

Price, No. 6-11/2-inch Co	mpound Injector I.	P Eac	ch, \$20.00
Price, No. 6-"KomposT"	Brick	Per Do	oz., 4.20

The No. 6—2-inch Compound Injectors are recommended for Large Tank Heaters, Boilers, Low and High Pressure Steam Boilers, Storage Tanks, etc.

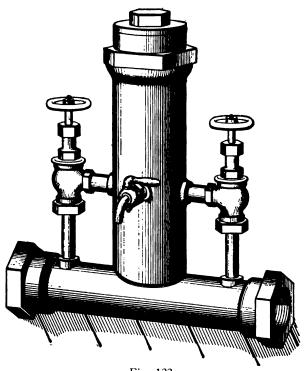


Fig. 122.
No. 6—2-inch Compound Injector.
Patented and Patents Pending.

Price No. 6-2-inch Comp	ound Injector	I.	P	Each,	\$23.00
Price No. 6-"KomposT"	Brick		Per	Doz.,	4.20

# (TRADE MARK) KOMPOS'

Registered in U. S. Patent Office

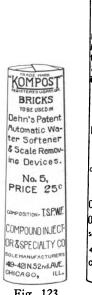


Fig. 123.

TO BE USED #4 Dehn's Patent Putomatic Wa ter Softener & Scale Remov no Devices. No. B. PRICE 35° COMPOSITION-TSPWF. COMPOUND INJECT OR&SPECIALTYCO SOLE MANUFACTURERS 40-421 N.52nd AVE CHICAGO, ILL.

Fig. 124.

Do not attempt to use or deposit any material into the Feeder of Injector other than our "KomposT" Bricks. All our "KomposT" Bricks are put up in special wrappers with our Registered Trade Mark "KomposT" printed thereon.

Beware of Imitators and Counterfeits. Our "KomposT" Bricks contain nothing in their composition that will injure the water if used for general domestic purposes. From this you will understand that the water can be used for the same purposes as it was before the Compound Injector was installed. If you follow directions, they never fail.

Price, Fig. 124, No. 6—"KomposT" Bricks............ Per Doz., 4.20

129

Please order "KomposT" Bricks by case number (note page 133).

#### "PEERLESS" WATER SOFTENER.

This is what you want in the Home. It is a household necessity.

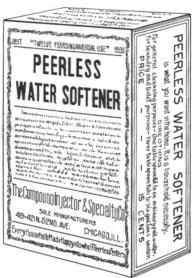


Fig. 125.

We call particular attention to this article, which as a water softener has no equal. It breaks water instantly, hot or cold. Can be applied to settling tanks or washing machines. Hard water can be made as soft as rain water and turbid water perfectly clarified. Makes washing easy. Clothes can be rubbed out in less time. Cleaner and better bleached. It is excellent for the kitchen, bath and general cleansing purposes.

"Peerles" Water Softener is entirely mineral, producing a clear soft, harmless water. It contains nothing of an injurious nature to fabrics or dyes. It is guaranteed to be absolutely pure. The great value of this article as a water purifier is beyond question.

It is fifteen years now since we placed this article on the market and it is giving universal satisfaction. It is a household necessity.

#### BEWARE OF IMITATORS AND COUNTERFEITS.

Price 1 lb. Package "PeerlesS" Water Softener, 1 Gross in a case \$21.65

#### "PEERLESS" WATER SOFTENER.

This is what you want for institutions of all kinds. It is a labor saver.

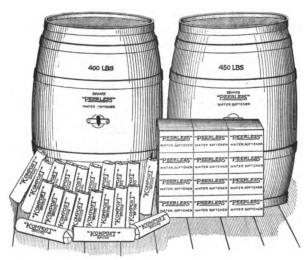


Fig. 126.

Fig. 127.

Our "Peerles" Water Softener is also put up in 5-lb. Packages and in barrels weighing from four hundred to five hundred pounds.

Price,	rig.	12/5-11).	Package	6	elles 2.	water	Somer	1ег, рег	
pa	ıckag	e							\$0.75
Price,	Fig.	126—Bulk	"Peerles	s''	Water	Softene	er in	barrels	•
we	eighir	ng 400 lbs	and up r	er 1	Ь				.15

### HOW TO ORDER COMPOUND INJECTORS.

Order the Compound Injectors according to size of pipes connecting with water back, coil, heater, boiler, etc.

Order by Figure Number in Catalogue.

We carry in stock, packed ready for shipment, the following:

Assorted sizes of Compound Injectors are packed as orders are received.

The above shipments are assorted for those who have no knowledge of how to send in their first order. You will observe that we endeavor to impress it upon your mind that the Injector can do no good without the "KomposT" Bricks, and as long as there is a "KomposT" Brick or a portion thereof in the feeder you can obtain the results looked for.

# How to Order

# "KOMPOST"

Registered in U. S. Patent Office.

#### BRICKS.

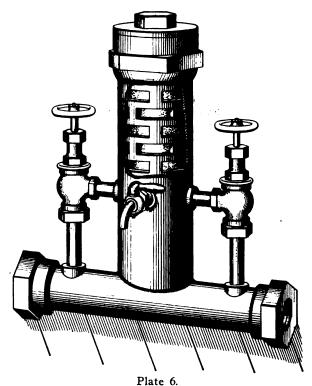
"KOMPOST" BRICKS are put up in the various size cases with the following number of Bricks in same.

Fig. 133. Case No. 1 contains 30 No. 5 Bricks.

Fig. 134. Case No. 2 contains 60 No. 5 Bricks.
Fig. 135. Case No. 3 contains 100 No. 5 Bricks.
Fig. 136. Case No. 4 contains 150 No. 5 Bricks.
Fig. 137. Case No. 5 contains 30 No. 6 Bricks.
Fig. 138. Case No. 6 contains 60 No. 6 Bricks.
Fig. 139. Case No. 7 contains 100 No. 6 Bricks.
Fig. 140. Case No. 8 contains 125 No. 6 Bricks.
Fig. 141. Case No. 9 contains 150 No. 6 Bricks.
Price No. 5 "KomposT" BricksEach, 25c
Price No. 6 "Kompost" BricksEach, 35c

Please Order "KomposT" Bricks according to Fig. and Case Number. An extra charge will be made for case when "KomposT" Bricks are ordered in quantities other than quoted on schedule.

#### TO THE TRADE.



Patented in United States, Canada and Foreign Countries.
Other Patents Pending.

We hereby notify all persons engaged in the Plumbing and Heating trade, and all others who may be interested, that Letters Patent No. 595120, Letters Patent No. 620231, Letters Patent No. 878280, were issued by the United States Patent Office to George J. Dehn, for Automatically Cleaning Water Heaters, Boilers, Water Backs, Coils, etc., and preventing the accumulation therein of deposits of lime, magnesia, or other foreign matter.

All rights under these patents are controlled by this Company, and we warn all persons to avoid liability from infringement of same by not making, selling or using Automatic Water Cleaning Apparatuses, other than those made and sold by us, which are made with the general principles or features above described. It is our intention to fully protect our rights under these patents granted against all infringers, and suits will be instituted in the United States Courts and vigorously prosecuted by us.

All owners of buildings where Automatic Water Softener and Scale Removing devices are required and contractors for the installation of same where these devices are intended to be used are especially warned to heed this notice.

COMPOUND INJECTOR & SPECIALTY CO.

# DIRECTIONS FOR CONNECTING AND OPERATING INJECTORS.

#### Mr. Plumber:

It is your duty to follow these instructions, so that your customers can obtain satisfactory results.

#### Mr. Consumer:

It will be to your interest to see that these instructions are carried out, for the benefit of your Heater, your Purse, and your Nerve Tissues.

For Residences and Small Public Institutions, where a 30 or 40 Gallon Range Boiler is installed, the Injector should be connected in the Cold Water Supply Pipe (in basement), leading to Range Doiler. See illustration on page 136.

If Automatic Instantaneous Heater is employed, the Injector should be connected in the Cold Water Supply Pipe leading to said Heater. See illustrations on pages 140-141 and 142.

For Hotels, Restaurants, City and Country Clubs, Hospitals, Universities, City, State and County Institutions, Barber Shops, etc., the Injector should be connected in the feed or cold water pipe to the Water Back, Coil or Heater. See illustrations on pages 138 and 139.

After the Injector has been installed and the water has been turned into the system, open the hot water faucets to allow the Grease and Dope to leave the system. When it has been experienced that the water is clear and free from grease and dope, turn the two valves off on the Injector, open the drain cook on the Injector, then unscrew cover from Injector, drop a "Kompost" Brick into the basket in feeder, screw cover down tight on Injector, close the drain cock. then open the two valves One-Quarter Revolution or less, when all will be ready for action.

One No. 5 "KomposT" Brick will neutralize 1,000 gallons of water; all depends on the acidity of the water. From this information you can figure out how long a "KomposT" Brick should last, which also depends on the quantity of Hot Water consumed; you can ascertain by the hardness of the water if the "KomposT" Brick is consumed.

Here we wish to endeavor to impress it upon your mind that as long as there is a "Kompoot" Brick or a portion thereof in the Feeder, you can obtain the results looked for. The Injector without the "Kompoot" Brick can do no good. After the Injector has been Installed you can use the water for the same purposes as it was before the Injector was installed.

Open the sediment cock at bottom of range boiler and Heater at least once a week. It is very essential that the sediment is drawn off frequently from the range boiler and heater.

Do not use a Fuller Bib for a Sediment Cock; a Round Way Lever handle stop or Gate Valve should be used.

We recommend for Ordinary Residences that at least one "Kompost" Brick per month be deposited into the feeder.

For Public Institutions it is necessary to deposit at least one "Kompost" Brick per week into the feeder.

Use "KomposT" Brick Freely.

Do not attempt to use or deposit any material into the Feeder other than our "KomposT" Bricks. All our "KomposT" Bricks are put

up in special wrappers with our Registered Trade Mark "KomposT" printed thereon.

Beware of Imitators and Counterfeits.

Follow Directions to avoid Trouble.

If you do have trouble, it is because directions have not been followed; hence, do not blame anyone but yourself.

It will require at least 90 days' time to remove deposits from Heaters, Coils, Boilers, etc.

#### WARNING.

Do not expect one "KomposT" Brick to do the work when you know it requires more.

Do not expect to get the best results if you do not follow the above directions.

You will observe a few letters from the many thousands of users of our Automatic Water Softener and Scale Removing Devices, who have experienced in the past fifteen years that our Compound Injectors and "Kompost" Bricks accomplish completely the effect sought; namely, the softening of the Water and the Consequent Prevention of Scale.

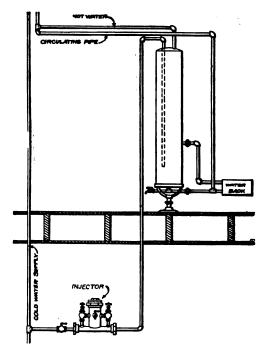
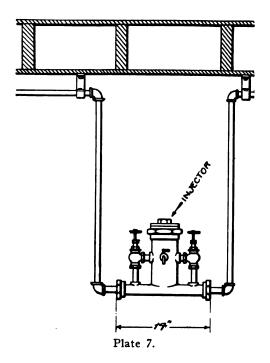


Plate 4.

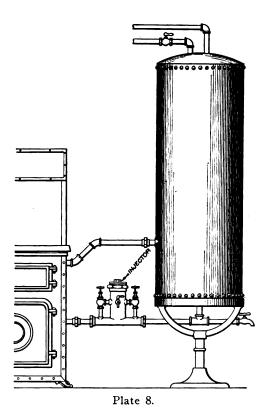
Where to connect Compound Injector for Residences and Small Institutions.

When it is experienced that the water pipe leading to range boiler is suspended from the ceiling and it is practical to install the Compound Injector in the basement, in such a case a loop can be installed, similar to illustration (Plate 7). This loop can be brought down from the ceiling, the desired height to make it convenient to manipulate when depositing a "Kompoet" Brick into the feeder, and to regulate supply of same. It is practical to drop this loop down close to the range boiler or at a pier in order to avoid obstructing the passage-way of the basement.

Our Compound Injectors have been installed for every type of installation. If some judgment is exercised when installing these devices, it will be experienced that the desired effect can be accomplished.



How to Connect Compound Injector When the Water Pipe
Leading to Range Boiler is Suspended from
Basement Ceiling.



Where to Connect Compound Injector with Kitchen Range to Water Back in Restaurants, Hotels, Hospitals and

. All Larger Ranges Where a Continuous Fire

Is in Operation.

This is an elevation of a portion of a kitchen range, with Water Back and Range Boiler, showing the Compound Injector connected in place. It will be observed that the Range Boiler and Range have the usual pipe connections and that the Injector is connected in the feed or cold water pipe, leading to water back.

## Where to Connect Compound Injector with Tank or Laundry Heaters.

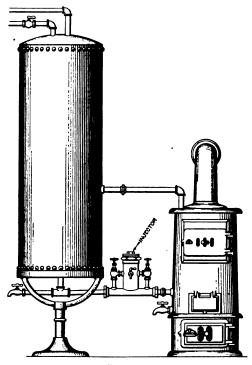


Plate 9.

This is an elevation of a Tank or Laundry Heater and Range Boiler showing the Compound Injector connected in the Feed or Cold Water Pipe leading from the Range Boiler to the Heater. It will be observed that we show two sediment cocks, one at the bottom of Range Boiler, and one at side of Heater. It is very essential that the sediment is drawn off frequently from the Range Boiler and Heater.

After the Injector is installed and a "Kompost" Brick has been deposited into the feeder, the two valves on the Injector should be opened less than ¼-turn and the fire started in Heater, all is ready to perform its work. The water is all neutralized ere it enters the Heater, hence it will be impossible to have any lime, magnesia or other incrusting minerals accumulate in the pipe connections or Heater. If deposits have accumulated in old heaters, pipes, etc., and there is still a circulation in same, this will gradually come off and should be blown out at drain cocks

should be blown out at drain cocks.

A No. 6 "KomposT" Brick will neutralize 2,000 gallons of water.

No less than three "KomposT" Bricks should be deposited into the Injector per week, when the Injector is connected to a large heater. It is not necessary to remove the basket from feeder after Injector

is installed. If You Follow Directions They Never Fail.

#### Automatic Instantaneous Heaters Rescued with Our Compound Injectors.

Automatic Instantaneous Heaters installed in a very large percentage of Cities and Towns cannot successfully remain in operation any great length of time, owing to the Coils, Pipes and Connections choking up with Lime, Magnesia and other incrusting minerals which renders the Heaters ineffective and destroys their usefulness.

The Trade is aware of these difficulties, which is quite an obstacle to overcome and to endeavor to explain why it is so. What economy of nature made it necessary in the formation of this world, that most of the water pumped from the bowels of the earth is what is known as hard water, seems past finding out, or if the scientists know why

it was necessary, they have not told us.

The Rock formation of the World seems to be largely Limestone, and water passing through it becomes impregnated with the lime to such an extent that it not only refuses to work in harmony with the Compound known as Soap, but it so incrusts Steam Boilers, Automatic Instantaneous, Tank or Laundry Heaters, Water Backs, Coils in Furnaces and Pipes, that in a comparatively short time they clog up and become ineffective. To overcome this characteristic of Limestone water has been a long and ardent study and endless experiment.

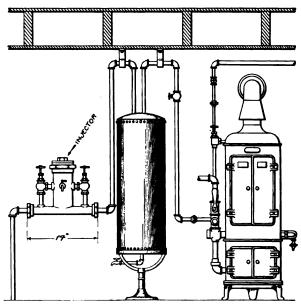


Plate 10.

How to Connect Compound Injector to Direct Supply Automatic Instantaneous Heater. 30-Gallon Range Tank
Should Be Employed for Sediment Tank.

The observing mechanic as well as the careful housewife has long since discovered that one of the greatest nuisances and expensive items, is this adhesion of Lime from hard water.

We know from experience that 90 per cent of the inland Cities are supplied with hard water for domestic use. Water impregnated with hardenable carbonates and sulphates of Lime, Magnesia and other Incrusting Minerals, causing not only loss of full value of heat, but costing frequent repair bills. If Scale can be prevented in Automatic Instantaneous Heaters, there is a large saving of fuel. There have in times past been invented and installed very expensive apparatus to accomplish this purpose, but as a rule they have proved ineffective.

You will observe from the testimonials of those who have used our Automatic Water Softener and Scale Removing Devices in the past fifteen years that our Compound Injectors and "Kompost" Bricks accomplish completely the effect sought, namely, the softening of the water and the consequent prevention of scale.

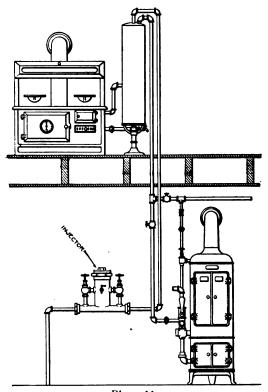


Plate 11.

Where to Connect Compound Injector to Automatic Instantaneous Heaters when Storage Tank and Range is Employed.

The Device is very simple. After the Injector is connected, the "KomposT" Brick, a water softening composition, is deposited into the feeder. The supply being automatically controlled by two valves on the Injector, which can be regulated to such a point that all the water can be neutralized ere it enters the heating apparatus.

The "KomposT" converts the sulphates or carbonates in the water into phosphates, which cannot harden, and, therefore, scale is impossible. This composition is guaranteed absolutely harmless when used in the water for culinary, drinking or toilet purposes.

The Injector involves so little attention that it takes but a few moments of any one's time two or three times a month and any person of ordinary intelligence can attend to it. The Injector is entirely Automatic and the "Kompost" will dissolve either in Cold or Hot water. The Compound Injector should be connected to the Automatic Instantaneous Heater in the cold water, feed or supply pipe to heater and as close as possible to the heater. We have our Compound Injectors in successful operation where it was impossible to operate a heater longer than two months when they would become entirely choked up.

Remember, with our Compound Injector, we overcome the accumulation of Lime and furnish Soft Water at the same time. If you follow directions, they never fail.

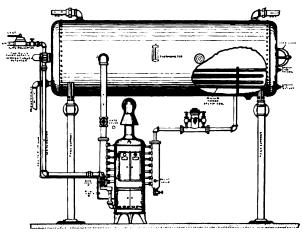


Plate 12.

Where to Connect Compound Injector to Automatic Instantaneous Heaters when Large Storage Tank is Employed.

#### Where to Connect Compound Injectors with Gas Water Heaters.

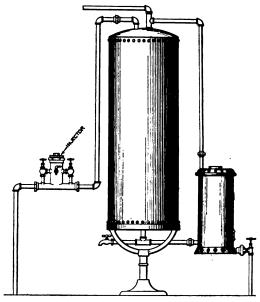


Plate 13.

Gas Water Heaters are now used very extensively for general domestic purposes. In localities where the fuel gas is reasonable in price, the gas is allowed to burn continually. In such cases a quantity of hot water can be obtained from the storage tank at all times. In localities where the gas commands a higher price, more economy is practiced with this fuel, hence the gas is turned on only when hot water is desired. In such cases, it is experienced that the cold water circulates from the bottom of storage tank, through Gas Heater direct to the fixture. Therefore, as conditions vary in the different localities, we advise connecting the Compound Injector in the cold water pipe leading to Storage Tank, as illustrated. However, as we have fully explained this matter in the preceding pages, some judgment must be exercised by the local dealer in regard to installing the Compound Injectors.

## Where to Connect Compound Injectors with High Pressure Steam Boilers.

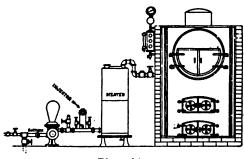


Plate 14.

It is our experience that 90 per cent of steam users find it difficult to use hard water for boiler feed purposes and have long since discovered that one of the greatest nuisances and most expensive items is this adhesion of Lime from hard water. Water impregnated with hardenable carbonates and sulphates of Lime, Magnesia and other Incrusting Minerals, causes not only loss of full value of heat and steam, but costing frequent repair bills. If scale can be prevented in steam boilers there is a large saving of fuel. An eighth of an inch of scale adds nearly one-fourth to the fuel bill.

Our Automatic Water Softener and Scale Removing Devices will positively overcome all these difficulties if installed and our "Kompost" Bricks used according to our directions.

For High Pressure Steam Boilers always connect the Compound Injector in the feed or supply pipe to boiler between the outlet of the steam pump and boiler as shown in the accompanying illustration, when all the water will be neutralized before entering boilers. Our "Kompost" converts the sulphates or carbonates in the water into phosphates which cannot harden and therefore scale is impossible. Please note this. If there is old scale in the boilers, heaters, pipes, etc., this will gradually come off as the soft water disintegrates the lime.

The action of the "KomposT" on the minerals absorbed by the water from the earth is to convert them into phosphates or light unhardenable substance which has no tendency to settle during circulation or to stick to hot surfaces. "KomposT" is guaranteed absolutely harmless to boiler or its connections, joints, packing, etc., and no injury will result from liberal use.

To remove scale use about one "Kompost" Brick for every one hundred horse power boiler per day. Larger or smaller boilers in proportion. To prevent incrustation from inland waters of usual hardness, use eight ounces per thousand gallons evaporated. Estimate four thousand gallons evaporation for each ten hours' run of a one hundred horse power boiler in fair condition. The size of Injector required depends on the size of pipe the Injector is to be connected in.

Boilers should be opened and washed out at intervals, best indicated by density of water in gauge glass. Empty boilers only when cool, if possible.

The Injector involves so little attention that it takes but a few moments of any one's time each day and any person of ordinary intelligence can attend to it. The Injector is entirely Automatic and the "Kompost" will dissolve in the water regardless of how cold or hot it may be. If You Follow Directions They Never Fail.

# Where to Connect Compound Injector with Low Pressure Steam and Hot Water House Heating Boilers.

The Compound Injector should be connected in the cold water, feed or supply pipe to the Steam Boiler on the boiler side of supply valve. After all the water in the boiler has been neutralized you can figure out how often a "Kompost" Brick is to be deposited into the feeder, by ascertaining the quantity of water evaporated in 24 hours. Draw the sediment off at the bottom of boiler at least once a week.

The Compound Injector should be connected in the feed or supply pipe to Hot Water Boilers in the same manner as for Low Pressure Steam Boilers. Remember the supply of "Kompost" is regulated by the two valves on Injector. If You Follow Directions They Never Fail.

How to Install Compound Injectors in Batteries when the Supply is Larger than 2".

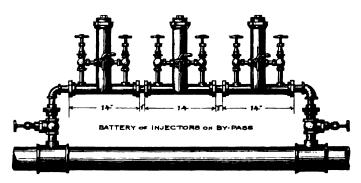


Plate 15.

For large institutions where a large volume of water is consumed daily for general domestic or high pressure steam purposes, where the water supply pipes are larger than 2" and it is desired to neutralize the water; in such institutions, it is recommended to install the Compound Injectors in batteries on the by-pass principle, similar to illustration (Plate 15).

When it is desired to overcome precipitation in tank or laundry heaters, we recommend installing battery of Compound Injectors in the cold water pipe leading from storage tank to heater. The heater must be provided with a blow-off cock not overlooking the fact that it is very essential to blow the sediment out of storage tank frequently.

#### Where to Connect Compound Injector for Automobile Garage.

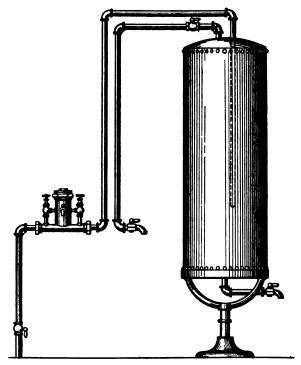


Plate 16.

Every Automobile Garage should be equipped with one of Dehn's Automatic Water Softener and Scale Removing Devices.

Considerable difficulty is experienced with Lime, Magnesia and other incrusting minerals choking up the Pipes, Connections and Boilers when Hard water is used to supply the Automobiles. From the accompanying illustration you will observe that a practical and simple Soft Water System can be installed at a very small cost. The Compound Injector is connected in the Cold Water Supply leading to range boiler. This will allow the minerals separated from the water, to precipitate at the bottom of range boiler where same can be drawn off at sediment cock. The distributing pipe should be taken off from top of boiler. This can be extended to the various parts of the Garage to make it convenient to draw the neutralized water from several faucets.

#### A FEW OF THE MANY TESTIMONIALS.

From firms and individuals from all parts of the United States and Canada who have been using our Compound Injectors from one to fifteen years, and are in use for every type of installation for Residences, Hotels, Restaurants, Hospitals, Sanitariums, Universities, Colleges, Barber Shops and all large and Public Institutions.

OAK PARK, ILL., Feb. 15, 1908.

We are pleased to advise you that we have installed in the past eight years a great many of your Dehn's Automatic Compound Injectors to Water Backs, Coils in Furnaces, Automatic Instantaneous, Laundry or Tank Heaters, House Heating Boilers, etc. In every case they have given the very best results. We cannot use Automatic Instantaneous Heaters in Oak Park at all without your Compound Injectors. Our customers are all well pleased with the results. We never hear any complaint about cost. Some are willing to pay almost any price to get relief from this endless trouble.

We cheerfully recommend your Automatic Compound Injectors to all who experience difficulty with Lime and other Incrusting Minerals in Yours very truly, Nelson & Wagner. the water.

Marion, Va., Jan. 3, 1907.

I have been using Dehn's Patent Automatic Feed Water Back, Boiler and Heater Cleaners for more than eight years, and it has never failed to give entire satisfaction. I can cheerfully recommend it to anyone who uses limestone water. Wishing you much success, I am,

Yours very truly, P. R. Francis.

Reading, Ohio, Jan. 11, 1907.

The Dehn's Boiler and Water Back Cleaner has given the best of satisfaction. It cleans the lime and magnesia out of the circulating pipes to the boiler, and there has been no hammering or knocking in pipes. I haven't a doubt but I will be able to sell quite a number of them this Yours respectfully, season.

Louis Uehlin.

RIVER FOREST, ILL., Jan. 10, 1907.

Your Cleaners for removal and prevention of scale in water backs and coils are giving my friends and myself entire satisfaction. Compound does not affect water in any way for domestic purposes. Wishing you now, as always, success in their manufacture and sale,

Yours very truly, CLYDE R. HARRISON.

CARBONDALE, ILL., Jan. 10, 1907.

Replying to yours of recent date, we have used your Dehn's Patent Automatic Feed Water Back, Boiler and Heater Cleaners, and have always been able to get good results.

Yours truly,

CARBONDALE PLUMBING & HEATING CO.

DALLAS, PA., Jan. 22, 1907.

In reply to yours of the 7th inst., would say that your Boiler and Heater Cleaners are doing all that you claim for them.

Yours respectfully,

Н. Е. Мотт.

St. John, N. B., Can., Dec. 28, 1902.

I can gladly testify to the merits of your Water Back Cleaner. I put two in this spring on two hot water boilers where we are compelled to use water where there is so much lime that we had to put in a new front every month. Since putting on Cleaner we have had no trouble at all and find the Cleaner will do all you claim it will. Yours truly,

WALTER P. COUGHLAN.

LA GRANGE, ILL., Mar. 11, 1901.

I am having a good trade in your Cleaners, as you must know by the amount I am ordering from you. They are a great success, and are doing all you claim for them. I have installed about fifteen up to the present time, and have places for others as soon as you send those I have ordered.

Yours truly,

GEO. I. KELLEY.

RICHMOND, IND., Jan. 8, 1907.

We have used a number of Dehn's Patent Automatic Feed Water Back, Boiler and Heater Cleaners, and found them a valuable contrivance to obviate trouble due to hard water in water backs, heaters, etc., of various kinds, and recommend them to users of hard water. Wishing you success, I remain,

Yours truly,

H. H. MEERHOFF.

NORTH WALES, Pa., Feb. 14, 1907.

I am glad to testify to the efficiency of your Cleaners. I have kept watch over one of them in a boarding house for the past year, with the best of results. Never had to disconnect any pipes, which used to be an every month or two occurrence, or broken water back.

Yours respectfully, GEO. K. MORRIS.

GENEVA, ILL., Jan. 5, 1907.

Yours of recent date at hand, and wish to state that we have been placing your Cleaners in this city for the last seven years and are still ordering others. They are giving perfect satisfaction all through. We have in here now about sixty (60) Cleaners, and not one out of commission.

Yours truly,

FRED SMITH.

ROCHESTER, N. Y., Jan. 15, 1907.

Answering yours of the 4th inst., would say that we have placed a number of your Water Back Cleaners in Residences and Clubs and small Towns surrounding Rochester, where the lime in the water has caused them an endless amount of trouble. In fact, in some cases they were obliged to do away with the regular water back and use an iron pipe coil over the fire, a pattern of which we kept in our shop, so that one could be made on a moment's notice to take the place of the one which had filled up. After the Cleaner was set and connected none of the people for whom we placed same ever came back to us to report any trouble whatever with lime filling the pipes. We consider them a perfect success and do not hesitate to recommend them to anyone having trouble along this line.

Respectfully yours.

CHAS. F. FISHER.

CORINTH, N. H., Jan. 15, 1907.

I have the Cleaner I purchased from your agent, W. E. Robinson, the plumber, from Windsor, Vt., in use over a year now. The water is very hard and contains much lime. We used to clean the pipes in range and from range to boiler every two weeks regular. Since using the Cleaner I have no trouble whatever. Mr. Robinson and myself are very much pleased with the results we are obtaining. I can recommend this device to anyone being troubled with lime accumulating in pipes and water back.

Yours respectfully,

A. L. PETERS.

CHICAGO, ILL., March 1, 1901.

It gives me pleasure to say that Dehn's Patent Automatic Feed Water Back, Boiler and Heater Cleaner, after a year's use in my kitchen has been found to do its promised work to my satisfaction. I should not feel safe without it, living as I do in a region (Geneva, Kane Co., Ill.) where the water supply to my pipes is exceedingly hard. The Cleaner thoroughly prevents the mineral matter from adhering to the sides of the pipes and water back, thus insuring safety and doing away with a great deal of expense and trouble. I have no hesitation in warmly recommending the device to others who are heating hard water for domestic use by means of a water back, etc.

Yours truly,

ORVILLE PECKHAM, Atty., First National Bank.

CEDAR HILL, TENN., Dec. 15, 1902.

I have been using one of Dehn's Patent Automatic Feed Water Back, Boiler and Heater Cleaners for nearly two years. It has given perfect satisfaction, and during this time I have had no trouble from the accumulation of lime in my Water Back. Before I began to use it I had to renew my Water Back every 3 or 4 months on account of its clogging up with lime and bursting.

Yours truly,

J. E. WASHINGTON.

VERMILION, S. D., Jan. 19, 1907.

Replying to your favor of recent date, I have put in several of Dehn's Patent Automatic Water Back Cleaners, and before my customers always had great trouble with water backs filling up and burning out, but since I put in Dehn's Cleaners have had no trouble, and therefore they give perfect satisfaction. They are doing all you claim for them.

Yours truly, Ludwig Rostad.

Hamilton, Ohio, Sept. 12, 1908.

Yours of the 11th at hand. In reply will say that we have sold and connected a number of your Compound Injectors, and all are giving the best of satisfaction. We connected a No. 6—2-in. Injector at the Y. M. C. A. building, this city, that is doing good work; also at the Hamilton Club, where they formerly had a great deal of trouble with the hard water filling up the hot water pipe with lime; also have one in our own flat building, which we are well pleased with, and a number of others that are giving good results. We would recommend their use wherever hard water is used.

Respectfully,

THE JOHN L. WALKER CO.

Brooksville, Ind., Jan. 10, 1907.

Our experience as to your Cleaners has been very satisfactory in results, as well as small cost of maintenance. It does not require much care, and by removing the lime in hard water makes the water as soft as rainwater and prevents the accumulation of lime in water backs. This accumulation finally clogs up the back, stopping circulation and heating of the water and causes water back to crack. Your Compound prevents this.

FIEBER & HOLMES.

WINDSOR, VT., Jan. 21, 1907.

I cheerfully testify to the merits of Dehn's Patent Water Back, Boiler and Heater Cleaners, having installed twelve of them the past year in connection with hot water range boilers. The water here is very hard and full of lime. Some coils fill up with lime every two weeks, and then burst, if not attended to at once, but where I have put on a Dehn's Cleaner they have had no trouble with them whatever after that. Every one of my customers speak well of them and are perfectly satisfied. I also have used the Compound in heating boilers and find it O. K. I think that I can sell a great many of the Cleaners this year, judging from the advertising I am getting from the Cleaners that are now in use here.

Yours truly, W. E. Robinson.

CEDAR RAPIDS, IA., Sept. 17, 1908.

In answer to your letter regarding the 2-in. Injector we installed at our Y. M. C. A., will say we have had no end of trouble with the deposits from the water in our building, and it has been customary to clean our Toby Heaters every three months in order to get any results at all. About April 1st we cleaned one of the heaters, leaving the other as it was. We then installed the 2-in. Injector and turned on the water. This has been on almost six months and we have had no further trouble whatever from the Lime and Magnesia deposits. We have a membership of about 1,100. We use large quantities of water daily, and our water is very hard. We don't anticipate any further trouble. Yours very truly,

J. H. FENTON & Co.

JANESVILLE, Wis., Feb. 28, 1901. Your Cleaners are all right and satisfactory in every respect. Respectfully,

F. E. GREEN.

EVANSVILLE, IND., Jan. 22, 1901.

We have put in one of your Water Back Cleaners for a private institution for aged ministers, which is working all right and giving good satisfaction. Yours respectfully,

Aug. Schmitt & Sons.

Janesville, Wis., Jan. 9, 1907.

In regard to what I have to say about the Dehn's Patent Automatic Cleaner, would say that I have used a few of them, and I am pleased to say that they are giving the best of satisfaction.

> Very respectfully, Chas. S. Snyder.

JANESVILLE, WIS., Jan. 9, 1907.

In reply to yours of recent date, would state that we have installed several of your Cleaners and we have found them to be very good in all cases. In any city where the water is hard we consider them to be worth their weight in gold.

Yours very truly,

GEORGE & CLEMONS.

UTICA, N. Y., Jan. 14, 1900.

We have one of your Cleaners in use in this city and find it does the work very satisfactorily.

Yours very respectfully,

STRADLING PLG. & HEATING CO.

Oconomowoc, Wis., Jan. 12, 1907.

In answer to your inquiry regarding your Dehn's Patent Automatic Feed Water Back and Heater Cleaners, would say that we have installed about one dozen of the largest size Cleaners on Heaters and Range Coils that were troubled with a snapping and rumbling every few months, all of which are giving the best of satisfaction. We consider them a perfect success.

Yours truly.

THE H. LORLEBERG CO.

LIBERTY, IND., Jan. 10, 1907.

I take pleasure in saying that we could not get along without the Dehn's Patent Automatic Cleaner, as our water is limey, and when we put in a water back without the Cleaner they soon fill up and give trouble. I take pleasure in recommending the Dehn's Patent Automatic Cleaner.

Yours.

FRANK F. FOSDICK.

VERGENNES, Vt., Feb. 21, 1910.

W. E. Robinson, Windsor, Vermont.

DEAR SIR:—The Dehn's Compound Injector that we installed some time previous, is doing good work and giving excellent results, and would advise that you rush another one of the Compound Injectors to us at once. also a case of KomposT Bricks for same.

Kindly notify me if you are able to fill this order at once.

Respectfully, VERMONT INDUSTRIAL SCHOOL, (Signed) J. W. Barss, Supt.

TORONTO, ONT., Apr. 26, 1909.

Yours of the 22nd inst. to hand, and in reply would say that this Injector has given perfect satisfaction in every way.

The prospect along these lines for the future is very promising, as in the country there are many large buildings being built, and as the water that is used is very hard, it will require something of this kind to make it possible to use.

Yours respectfully,

(Signed) FIDDES & HOGARTH, LTD.,

Per W. H. E.

CHICAGO, June 15, 1909.

We received the following letter from our Havana Branch:

"We refer to yours of June 9th, in reference to the Compound Injectors, and beg to state that the writer has personally observed and installed these Injectors, and is very highly pleased with them. They have proven very satisfactory and everything that has been claimed for them has proven true. This in spite of the hard and trying water that they have to contend with in Havana."

From the above, you will observe that the Injectors have proven their worth on the Island of Cuba. We have very good prospects for the future, and you should profit by increased demands for your apparatus.

Very truly,

Dict. by

Mr. S. McKeeby

GA

JAMES B. CLOW & SONS,

(Signed) S. McKeeby,

Mgr. Spclty. Dept.

COLUMBIANA, OHIO, Mar. 8, 1910.

We are pleased to advise that your Compound Injectors are all O. K., and doing all you claim for them.

Please send us at once, two No. 5 3/4-in. Compound Injectors.

Very truly yours,

(Signed) A. L. Brentzel.

CANTON, ILL., Mar. 15, 1910.

I have installed in my own residence, one of your Compound Injectors, which is giving entire satisfactory results, and have since sold two more. I hope in the future to put in a great many of them. Our city water is the worst ever, and there should be a good demand for them.

Yours truly,

(Signed) Jas. B. Buckley.

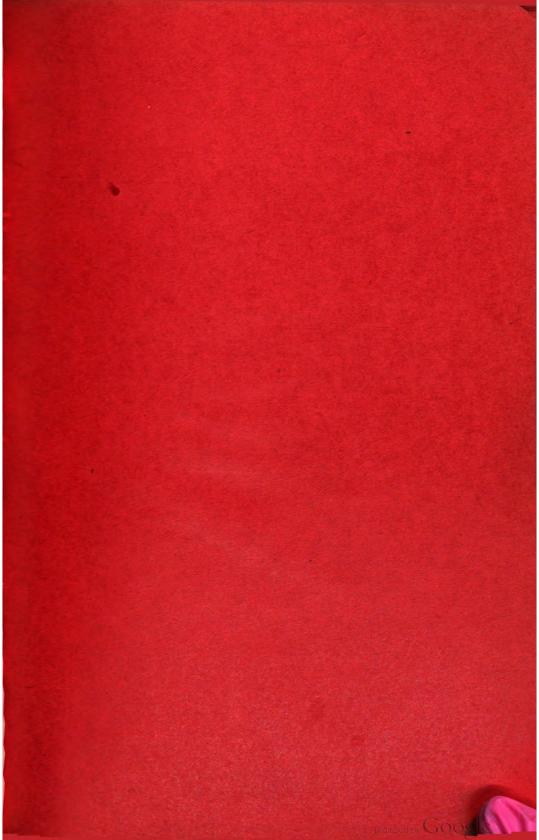
HOWARD, S. D., May 9, 1910.

Mr. C. C. Clark, proprietor of the Wheeler Hotel of our city, recommends your Compound Injectors and Water Softening Devices very highly. He has had one of these devices installed for some time and would request that you ship to me at once, without delay, one No. 5 ¾-in. and one No. 6 1¼-in. Compound Injectors, also KomposT Bricks for same.

Your prompt attention to this matter will greatly oblige,

Yours respectfully,

(Signed) J. S. Holstrom.









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